COMBINATION **DOME CAMERA SYSTEMS**

Combination Dome Cameras





C-CC774 C-CC764 multi-function type C-CC714 standard type

For Indoor Use



C-CC574 C-CC564 multi-function type

C-CC514 standard type

Brackets and Covers

For Outdoor Use



C-BC711P Ceiling Suspension Bracket



C-BC711PM Pole Mounting Bracket



C-BC511C Ceiling Mount Cover



C-BC511P Ceiling Suspension



For Indoor Use



C-BC511U Flush Ceiling Mounting Bracket



C-BC511A Ceiling Mounting



Wall Mounting **Bracket**



C-A711DM Smoked Dome Cover



C-BC511C-S Ceiling Mount Cover (Smoked)



C-BC511W Wall Mounting **Bracket**



Bracket (Smoked)

Remote Controllers







Combination Dome Cameras

Configuring a perfect surveillance system.

■ Higher resolution delivers better images.

TOA cameras now feature a higher horizontal resolution of 540*1 lines to deliver images of enhanced quality.

■ All points coverage at high speed.

TOA's new combination dome cameras help to improve monitoring environments with an ideal coverage area that is made possible with a 360° rotation range to cover any

possible position. Capable of a maximum rotating speed (panning/tilting) of 360°/second, these versatile cameras allow rotation speed to be slowed down as desired.



■ Expanded zooming ability.

TOA cameras are capably equipped for zooming as needed. C-CC574 and C-CC774 incorporate a 35X ultra wide-angle zoom lens for better coverage of a desired image. If even more zooming is required, 12X digital zooming can be activated, resulting in an extraordinary combined zoom factor of up to 420X*.

*C-CC574 and C-CC774 cameras are equipped with a high-speed, wide-angle lens having a 35X zoom while C-CC564 and C-CC764 cameras are equipped with a high-speed, wide-angle lens having a 23X zoom (C-CC514 and C-CC714 having a 22X zoom). With the 12X digital zoom activated, a total 420X zoom is possible for C-CC574, 276X zoom for C-CC564 and C-CC764 cameras and 264X zoom for C-CC514 and C-CC714 cameras.

■ Electronic Image Stabilizer.*1

Using the camera at high zoom settings makes it very susceptible to wind. Even if the camera shakes slightly, images blur. TOA incorporates an image stabilization feature in the camera that minimizes movement-induced blurring to maintain stable images. In addition, the camera is also equipped with an angle-speed sensor that can maintain stable images even if monitoring low-light locations.

Sophisticated autofocus modes add versatility.

TOA cameras are equipped with advanced auto-focusing. Three independent modes are offered: Auto focus for normal operation is activated with a single push. Stop Auto Focus activates if the camera view or viewing angle changes. To keep auto focus working continuously, the Continuous auto focus can be engaged.

■ Intelligent image optimizing using the Wide Dynamic Range function.*2

If the area of coverage exhibits varying brightness levels, it causes various problems that prevent achieving superb image quality. These problems pose severe difficulties for cameras that utilize conventional technology for dealing with brightness variations. The following two examples illustrate the problem.



Placing the focus on the outdoors results in the indoors being too dark to see well. (Photo A)

However, setting the focus on the indoors now "whites out" the outdoor area. (Photo B)

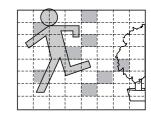


TOA Combination Dome Cameras incorporate a special Digital Signal Processor (DSP) that works to optimize image, producing a single image of exceptional clarity that is comparable to the same image when viewed with human eyes.

■ Motion detection function initiates operation.*2

When a moving object enters a camera's field of view, the camera will initiate a preprogrammed operation or a

series of operations. The camera's view can be monitored onscreen with a window that is divided into 64 segments and from these, 8 areas can be selected as motion detection zones.



■ Color image clarity maintained with sensitivity boost.

In night or dark lighting conditions, the camera's shutter speed is automatically reduced so that more light can enter. This function effectively increases the camera's sensitivity so that dark areas can be made up to 32 times brighter.

■ Day/Night operation improves low light performance.*2

Combination dome cameras also incorporate a separate B/W mode. At night, as light intensity decreases, this mode automatically activates, boosting camera sensitivity and making it possible to capture clear images even in unsatisfactory light conditions. When light conditions are satisfactory, the camera will revert to its primary function as a color camera. Used together, the sensitivity boost and B/W modes allow TOA combination dome cameras to efficiently function for 24-hour monitoring.

Note: B/W mode allows monitoring target areas that are not possible in normal light conditions.



Sensitivity boost allows cameras to provide good color image quality for dark areas.



(color image)



B/W mode.



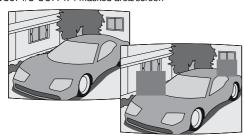
(B/W image)

■ Protecting privacy.

a) Privacy Masking function.*2

Depending on system use requirements, there may be several areas that the system administrator decides does not require surveillance for whatever reason. Users are allowed to select in advance the locations they wish to be excluded from surveillance in a camera's field of view. Onscreen selected areas can be masked with a rectangle and a maximum of 8 areas can be masked for privacy.

*C-CC564/C-CC764: 2 masked area/screen *C-CC574/C-CC774: 4 masked area/screen



b) Restricting camera movement.

In addition to masking areas for privacy, a hardware-oriented method is also available. A camera's rotation range in both horizontal and vertical directions can be restricted to exclude areas from surveillance.

■ Outdoor installation ready. (meets IP66 standards)

C-CC714, C-CC764 and C-CC774 utilize a waterproof and dustproof design that fully conforms to IP66 standards and can be safely installed outdoors. Cameras are cased in a special housing that withstands outdoor conditions, allowing them to be installed outdoors, even if the location is directly exposed to rain.

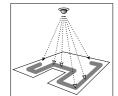
■ Withstands cold weather conditions.

C-CC714, C-CC764 and C-CC774 incorporate a heating circuit that allows operation in severe temperatures down to –40°C. Heating is automatically turned on when ambient temperatures go below 0°C and will automatically switch off when the temperatures rise.

Note: Turning the camera on if the camera interior is below 0°C may not result in producing an immediately viewable image. Once the camera interior temperature rises above 0°C, images will be viewable.

■ Route tracing facilitates subject monitoring.

In order to make it easy to follow a subject along a route, the camera can be set to automatically monitor preset points for up to 60 seconds. Two different routes can be programmed.



■ Configuring programmable tours.

Through combinations of the 255 preset positions and trace function, a camera can be programmed to automatically and continuously repeat a travel pattern as a tour. Up to 16 tour patterns can be programmed. Any tour program is able to have a different travel pattern that can be activated by an alarm input or timer.

■ Programmable camera operation initiated by alarm input.

A useful Alarm function allows programming camera operation that can be activated by an alarm input. Desired camera operations such as position replay, touring, tracing, and control of the auxiliary terminal can be programmed to activate when the camera receives an alarm input. Each camera is equipped with three (C-CC564 and C-CC574 have eight) alarm inputs and each alarm input can be set to respond with different preprogrammed operation.

■ Preset operation start with Timer program function.

A camera can conveniently be set to begin operation at a preset time with a built-in timer. Each camera has a clock function that can be set to initiate operation at a preset time. The timer can be set for a specific date, day of the week, or daily. Up to 16 different timer programs can be set.

^{*1} C-CC574/C-CC774 only.

^{*2} C-CC564/C-CC574/C-CC764/C-CC774 only.

Combination Dome Cameras

I Titling options.

To facilitate camera use, various titles can be input and displayed on the monitor. In addition to camera and position titles, other titles for display include trace title, displayed while the trace function is on, tour title, displayed when tour function is activated, and alarm title displayed when an alarm input is received.

■ Flexible installation options.

TOA cameras can easily be installed on ceilings, walls or on poles thanks to the wide range of mounting brackets available.

■ Software for maintenance.

TOA cameras include dedicated software that allows easy titles to be set and to create a backup of parameters with a PC.

- · Confirmation of camera operation
- · Menu-based settings and backup of settings data
- · Create title data settings in advance
- · Upload camera firmware

■ Freeze preset function*2

Displays the still image during camera movement between preset positions.

■ Multi-language

- · Menu: 4 languages
- Camera ID: 8 languages

■ Auto positional deviation correction

When the camera has rotated to some degree of deviation.

■ Auto Refresh Function

Cleans horizontal rotation contacts periodically.

■ Other functions.

- Tilt (vertical) range: +5° to -185°.*2
- Auto flip function*2
- Rotation speed can be varied to match lens zooming ratio in manual operation mode.
- Flicker-free operation
- · Alarm inputs and auxiliary contact output.
- RS-485 protocol control.

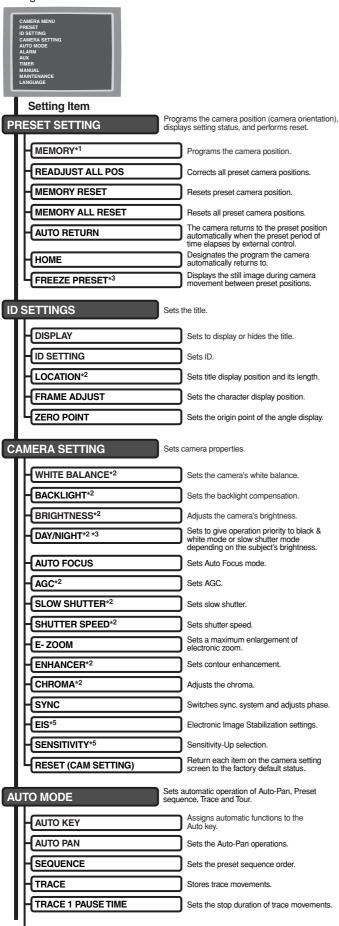
Combination Dome Camera Comparison Table

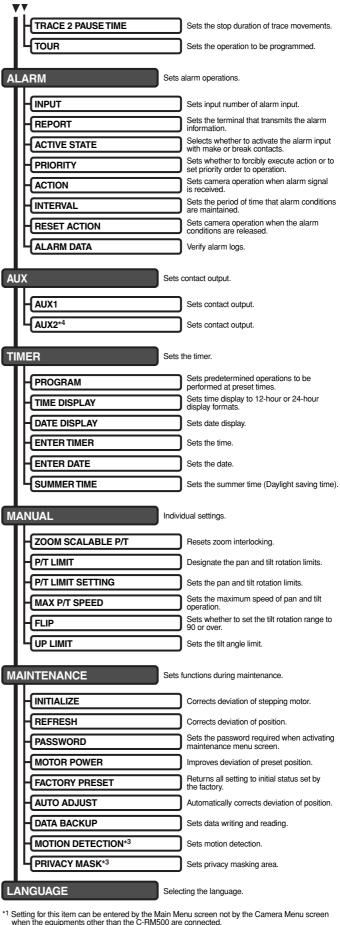
Function/Specification	C-CC774	C-CC764	C-CC714	C-CC574	C-CC564	C-CC514
Application	Outdoor	Outdoor	Outdoor	Indoor	Indoor	Indoor
Water Dust Protection	IP66	IP66	IP66	_	_	_
Operating Temperature	-40°C to +50°C	-40°C to +50°C	-40°C to +50°C	-10°C to +50°C	-10°C to +50°C	−10°C to +50°C
Auto Iris Lens Zoom Ratio	35X	23X	22X	35X	23X	22X
Focal Length (f =)	3.4 – 119.0 mm	3.6 – 82.8 mm	4.0 – 88.0 mm	3.4 – 119.0 mm	3.6 – 82.8 mm	4.0 – 88.0 mm
Electronic Zoom Ratio	12X	12X	12X	12X	12X	12X
Image Device	1/4 CCD	1/4 CCD	1/4 CCD	1/4 CCD	1/4 CCD	1/4 CCD
Horizontal Resolution (at Center)	540 line	480 line	480 line	540 line	480 line	480 line
Minimum Required Illumination 350mV 140mV		3 lx 1 lx	1 lx 0.3 lx	1 lx 0.3 lx	3 lx 1 lx	1 lx 0.3 lx
High Sensitivity ON 350mV High Sensitivity ON 140mV		0.03 lx 0.01 lx	0.03 lx 0.01 lx	0.005 lx 0.0015 lx	0.03 lx 0.01 lx	0.03 lx 0.01 lx
Number of Preset Positions	255+Home	255+Home	255+Home	255+Home	255+Home	255+Home
Zoom Speed (WIDE end to TELE end) Preset Operaition Manual Operation		1.5 sec. 2.9 sec.	1.3 sec. 2.4 sec.	2.0 sec. 3.2 sec.	1.5 sec. 2.9 sec.	1.3 sec. 2.4 sec.
Rotating Range Panning	360° endless	360° endless	360° endless	360° endless	360° endless	360° endless
Tilting	+5° to -185°	+5° to -185°	+5° to -90°	+5° to -185°	+5° to -185°	+5° to -90°
Rotating Speed	360°/sec.	360°/sec.	360°/sec.	360°/sec.	360°/sec.	360°/sec.
Electronic Image Stabilizer	•	_	_	•	_	_
Wide Dynamic Range	•	•	_	•	•	_
Back Light Compensation	•	•	•	•	•	•
White Balance	ATW/AWB	ATW/AWB	ATW/AWB	ATW/AWB	ATW/AWB	ATW/AWB
Sensitivity Up (Color mode)	Max. 32 times	Max. 32 times	Max. 32 times	Max. 32 times	Max. 32 times	Max. 32 times
Day/Night operation (B/W mode)	•	•	_	•	•	_
Motion Detection	•	•	_	•	•	_
Privacy Masking	● Max 8 area Up to 4/Screen	Max 8 areaUp to 2/Screen		Max 8 areaUp to 4/Screen	● Max 8 area Up to 2/Screen	
Alarm Input	3	3	3	8	8	3
Contact Output	1	1	1	2	2	1
Power Source	24V AC	24V AC	24V AC	24V AC	24V AC	24V AC

^{*2} C-CC564/C-CC574/C-CC764/C-CC774 only.

SETTING GUIDE

The camera menu screens are comprised of the following setting item screens.





- *1 Setting for this item can be entered by the Main Menu screen not by the Camera Menu screen when the equipments other than the C-RM500 are connected.
- *2 Can also be changed for individual positions at the Camera setting screen for individual positions.
- *3 Can be only set for the C-CC564, C-CC574, C-CC764 and C-CC774.
- *4 Can be only set for the C-CC564 and C-CC574. *5 Can be only set for the C-CC574 and C-CC774.

C-CC774/C-CC764/C-CC714

COMBINATION DOME CAMERA (OUTDOOR USE)



C-CC774 FEATURES

- 255 preset positions + Home position
- 420X zoom (optical 35X, electronic 12X)
- Electronic Image Stabilizer
- Tilt rotation range +5° to -185°(using Auto-Flip function)
- Pan rotation range continuous 360°
- Pan/tilt maximum rotating speed is 360°/sec
- 1/4 type CCD image device
- 540 lines high resolution
- Wide dynamic range
- Autofocus
- High-sensitivity function (color and B/W modes)
- Preset sequency function
- Privacy masking function
- Restricting camera movement
- Auto-trace function
- Auto-tour function
- Motion detection function
- Auto-pan function
- · Preset image freeze function
- Dust/Water Protection: IP66
- RS-485 protocol compatible

C-CC764 FEATURES

- 255 preset positions + Home position
- 276X zoom (optical 23X, electronic 12X)
- Tilt rotation range +5° to -185°(using Auto-Flip function)
- Pan rotation range continuous 360°
 Pan/tilt maximum rotating speed is
- Pan/tilt maximum rotating speed is 360°/sec
- 1/4 type CCD image device
- 480 lines high resolution
- Wide dynamic range
- Autofocus
- · High-sensitivity function (color and B/W modes)
- Preset sequency function
- Privacy masking function
- · Restricting camera movement
- Auto-trace function
- Auto-tour function
- Motion detection function
- Auto-pan function
- Preset image freeze function
- Dust/Water Protection: IP66
- RS-485 protocol compatible

C-CC774 SPECIFICATIONS

Power source	24V AC 50/60Hz (2P loose end)	
Power consumption	10W (normal operation), 80W max. (2.8A max.)	
Control	RS-485 communications system (new protocol compatible)	
Video Output	VBS 1.0V(p-p), 75Ω, BNC-R jack	
Camera Control Terminal		
Alarm Input	3 channels, no-voltage make contact input, open voltage: 18V DC, short-circuit current; Under 2mA (settable alarm action), multi-pair cable 8P, loose end (3P of 8P)	
Auxiliary Contact Output	1 channel, open collector output, withstand voltage: 20V DC, permissible current: Under 100mA, multi-pair cable 8P, loose end (1P of 8P)	
Synchronization	Internal synchronization/power synchronization (phase adjustable when in power synchronization mode)	
ID	8 characters (alphanumeric and symbols) Camera, Position, Trace, Auto-pan, Tour, Home, Alarm, Sector, AUX	
No. of Preset Positions	255 Positions + Home	
Automatic Operation	Auto-pan, Preset sequence, Auto-trace (2 preset patterns (60s)), Tour (16 preset patterns)	
Timer	Refresh: Starts at the preset time every day or every week by timer settings Program: Settable 16 actions	
Language	Menu: English, German, French, Italian ID: English, German, French, Italian, Russian, Polish, Spanish, Portuguese	
Camera		
Image device	1/4 type CCD	
Resolution	Horizontal: 540 lines typ. (at center), 520 lines min	
S/N ratio	50dB	
Minimum Illumination	High-sensitivity function 0FF: 1 k (350mV), 0.3 k (140mV) High-sensitivity function 0N: 0.005 k (350mV), 0.0015 k (140mV) (Sensitivity-UP) High-sensitivity function 0FF: 0.5 k (350mV), 0.15 k (140mV) High-sensitivity function 0N: 0.0025 k (350mV), 0.00075 k (140mV)	
Backlight Compensation	WIDE DYNAMIC/WIDE DYNAMIC 2/Pattern 1/Pattern 2/Pattern 3/OFF	
Dynamic Range	52dB (backlight compensation: WIDE DYNAMIC operation)	
High-Sensitivity Function	B/W mode and slow shutter mode (32 times max.)	
White Balance	ATW/AWB	
Iris	Automatic	
Flicker Reduction	Automatic correction	
Electronic Zooming	12x zooming	
Auto-Focus	One push/stop AF/continuous	
Lens		
Zooming	35x	
Effective Focal Length	f = 3.4 – 119mm (35X)	
Effective Angle of View	Horizontal: 55.8° (W) – 1.7° (T), Vertical: 43.3° (W) – 1.3° (T)	
Maximum Aperture	F 1.4 (W) – F 4.2 (T)	
Zoom Speed	WIDE end to TELE end Approx. 2s (preset operation), Approx. 3.2s (manual operation)	
Pan/Tilt Head		
Rotating Range	Panning: Endless 360° rotation, Tilting: +5° to –185°	
Rotating Speed	Panning/Tilting: 360°/s max. (preset operation), 360°/s max. (manual operation)	
Other Function	Auto-Pan, Freeze Preset, Manual Limit, Privacy Masking (up to 8), Motion Detection (each 8 presets at each 4 positions) EIS	
Operating Temperature	-40°C to +50°C	
Operating Humidity	Under 90% RH (no condensation)	
Application	Indoors and outdoors (except seaside, industrial districts and locations exposed to fine particles,	
Dust/Water Protection	where the unit is subject to corrosion, and heights that expose the unit to strong wind pressure) IP66	
Finish	Case, top cover and decorative frame: PC resin, light gray,	
	Sunshade: Aluminum, light gray, paint, Dome cover: PC resin (transparent)	
Dimensions	Camera section external diameter: ø230 × 340 (H)mm Dome external diameter: ø 150mm	
Weight	4.4kg	
Accessory	Top cover mounting screw (Hexagon socket screw M4 \times 8) \times 3, CD-R (Camera controller software, manual (PDF)) \times 1	
Option	Wall mounting bracket: C-BC711W, Suspension bracket: C-BC711P, Pole mounting bracket: C-BC711PM, Smoked dome cover: C-A 711DM	

■ C-CC764 SPECIFICATIONS

Power source 24V AC, 50/60Hz (2P loose end)

Power source	24V AC, 50/60H2 (2P 100Se e1id)		
Power consumption	10W (normal operation), 80W max. (2.8A max.)		
Control	RS-485 communications system (new protocol compatible)		
Video Output	VBS 1.0V(p-p), 75Ω, BNC-R jack		
Camera Control Terminal	RS-485 camera control connector, multi-pair cable 8P, loose end (3P of 8P)		
Alarm Input	3 channels, no-voltage make contact input, open voltage: 18V DC, short-circuit current; Under 2mA (settable alarm action), multi-pair cable 8P, loose end (3P of 8P)		
Auxiliary Contact Output	1 channel, open collector output, withstand voltage: 20V DC, permissible current: Under 100mA, multi-pair cable 8P, loose end (1P of 8P)		
Synchronization	Internal synchronization/power synchronization (phase adjustable when in power synchronization mode)		
ID	8 characters (alphanumeric and symbols) Camera, Position, Trace, Auto-pan, Tour, Home, Alarm, Sector, AUX		
No. of Preset Positions	255 Positions + Home		
Automatic Operation	Auto-pan, Preset sequence, Auto-trace (2 preset patterns (60s)), Tour (16 preset patterns)		
Timer	Refresh: Starts at the preset time every day or every week by timer settings Program: Settable 16 actions		
Language	Menu: English, German, French, Italian ID: English, German, French, Italian, Russian, Polish, Spanish, Portuguese		
Camera			
Image device	1/4 type CCD		
Resolution	Horizontal: 480 lines (at center)		
S/N ratio	50dB		
Minimum Illumination	High-sensitivity function OFF: 3 lx (350mV), 1 lx (140mV) High-sensitivity function ON: 0.03 lx (350mV), 0.01 lx (140mV)		
Backlight Compensation	WIDE DYNAMIC/Pattern 1/Pattern 2/Pattern 3/0FF		
Dynamic Range	46dB (backlight compensation: WIDE DYNAMIC operation)		
High-Sensitivity Function	B/W mode and slow shutter mode (32 times max.)		
White Balance	ATW/AWB		
Iris	Automatic		
Flicker Reduction	Automatic correction		
Electronic Zooming	12x zooming		
Auto-Focus	One push/stop AF/continuous		
Lens			
Zoomina	23x		
Effective Focal Length	f = 3.6 – 82.8mm (23X)		
Effective Angle of View	Horizontal: 54° (W) – 2.5° (T), Vertical: 41.6° (W) – 1.9° (T)		
Maximum Aperture	F 1.6 (W) – F 3.7 (T)		
Zoom Speed	WIDE end to TELE end Approx. 1.5s (preset operation), Approx. 2.9s (manual operation)		
Pan/Tilt Head	Fr		
Rotating Range	Panning: Endless 360° rotation, Tilting: +5° to –185°		
Rotating Speed	Panning/Tilting: 360°/s max. (preset operation), 360°/s max. (manual operation)		
g -p			
Other Function	Auto-Pan, Freeze Preset, Manual Limit, Privacy Masking (up to 8), Motion Detection (each 8 presets at each 4 positions)		
Operating Temperature	-40°C to +50°C		
Operating Humidity	Under 90% RH (no condensation)		
Application	Indoors and outdoors (except seaside, industrial districts and locations exposed to fine particles, where the unit is subject to corrosion, and heights that expose the unit to strong wind pressure)		
Dust/Water Protection	IP66		
Finish	Case, top cover and decorative frame: PC resin, light gray Sunshade: Aluminum, light gray, paint Dome cover: PC resin (transparent)		
Dimensions	Camera section external diameter: ø230 × 330.5 (H)mm Dome external diameter: ø 150mm		
Weight	4.4kg		
Accessory	Top cover mounting screw (Hexagon socket screw M4×8) × 3,		
Option	CD-R (Camera confroller software, manual (PDF) x 1 Wall mounting bracket: C-BC711W, Suspension bracket: C-BC711P, Pole mounting bracket: C-BC711PM, Smoked dome cover: C-A 711DM		
Option			

C-CC714 FEATURES

- 255 preset positions + Home position
- 264X zoom (optical 22X, electronic 12X)
- Tilt rotation range +5° to -90°
- Pan rotation range continuous 360°
- Pan/tilt maximum rotating speed is 360°/sec
- 1/4 type CCD image device
- 480 lines high resolution
- Autofocus
- High-sensitivity function (color mode)
- · Preset sequency function
- · Restricting camera movement
- Auto-trace function
- Auto-tour function
- Auto-pan function
- Dust/Water Protection: IP66
- RS-485 protocol compatible

C-CC714 SPECIFICATIONS

Power source	24V AC, 50/60Hz (2P loose end)		
Power consumption	10W (normal operation), 80W max. (2.8A max.)		
Control	RS-485 communications system (new protocol compatible)		
Video Output	VBS 1.0V(p-p), 75Ω, BNC-R jack		
Camera Control Terminal	RS-485 camera control connector, multi-pair cable 8P, loose end (3P of 8P)		
Alarm Input	3 channels, no-voltage make contact input, open voltage: 18V DC, short-circuit current; Under 2mA (settable alarm action), multi-pair cable 8P, loose end (3P of 8P)		
Auxiliary Contact Output	1 channel, open collector output, withstand voltage: 20V DC, permissible current: Under 100mA, multi-pair cable 8P, loose end (1P of 8P)		
Synchronization	Internal synchronization/power synchronization (phase adjustable when in power synchronization mode)		
ID	8 characters (alphanumeric and symbols) Camera, Position, Trace, Auto-pan, Tour, Home, Alarm, Sector, AUX		
No. of Preset Positions	255 Positions + Home		
Automatic Operation	Auto-pan, Preset sequence, Auto-trace (2 preset patterns (60s)), Tour (16 preset patterns)		
Timer	Refresh: Starts at the preset time every day or every week by timer settings Program: Settable 16 actions		
Language	Menu: English, German, French, Italian ID: English, German, French, Italian, Russian, Polish, Spanish, Portuguese		
Camera			
Image device	1/4 type CCD		
Resolution	Horizontal: 480 lines (at center)		
S/N ratio	50dB		
Minimum Illumination	High-sensitivity function OFF: 1 lx (350mV), 0.3 lx (140mV) High-sensitivity function ON: 0.03 lx (350mV), 0.01 lx (140mV)		
Backlight Compensation	Pattern 1/Pattern 2/Pattern 3/0FF		
High-Sensitivity Function	Slow shutter mode (32 times max.)		
White Balance	ATW/AWB		
Iris	Automatic		
Flicker Reduction	Automatic correction		
Electronic Zooming	12x zooming		
Auto-Focus	One push/stop AF/continuous		
Lens			
Zooming	22x		
Effective Focal Length	f = 4.0 – 88mm (22X)		
Effective Angle of View	Horizontal: 47.3° (W) – 2.2° (T), Vertical: 36.5° (W) – 1.7° (T)		
Maximum Aperture	F 1.6 (W) – F 3.8 (T)		
Zoom Speed	WIDE end to TELE end Approx. 1.3s (preset operation), Approx. 2.4s (manual operation)		
Pan/Tilt Head			
Rotating Range	Panning: Endless 360° rotation, Tilting: +5° to -90°		
Rotating Speed	Panning/Tilting: 360°/s max. (preset operation), 360°/s max. (manual operation)		
Other Function	Manual Limit		
Operating Temperature	-40°C to +50°C		
Operating Humidity	Under 90% RH (no condensation)		
Application	Indoors and outdoors (except seaside, industrial districts and locations exposed to fine particles, where the unit is subject to corrosion, and heights that expose the unit to strong wind pressure)		
Dust/Water Protection	IP66		
Finish	Case, top cover and decorative frame: PC resin, light gray Sunshade: Aluminum, light gray, paint Dome cover: PC resin (transparent)		
Dimensions	Camera section external diameter: ø230 × 330.5 (H)mm Dome external diameter: ø 150mm		
Weight	4.4kg		
Weight Accessory	4.4kg Top cover mounting screw (Hexagon socket screw M4 × 8) × 3, CD-R (Camera controller software, manual (PDF)) × 1		

Brackets and Dome Cover



C-BC711P Suspension Bracket

The C-BC711P is exclusively designed to be used to suspend TOA's outdoor combination camera from a ceiling or eaves.

Finish	Base: Aluminum, light gray, paint Pipe: Stainless steel (SUS304)
Dimensions	140 (W) × 164 (H) × 200 (D)mm
Weight	1kg
Accessory	Camera mounting screw (M5×12, with washer) × 3

Note: pay attention to the strength of the attaching portion.



C-BC711PM

Pole Mounting Bracket

Using the optional YS-60B and C-BC711W, the C-BC711PM can mount the outdoor combination camera on a pole.

Finish	Stainless steel (SUS304)
Dimensions	140 (W) × 200 (H) × 60 (D)mm
Weight	700g

Note: Reinforce the pole mounting bracket and mounting band separately for security when installing the camera in locations exposed to vibration or strong winds.

Maintenance the unit, mounting bracket and mounting band periodically to ensure that there are no loose joint nor rickety parts.



C-BC711W Wall Mounting Bracket

The C-BC711W is designed to be used to mount TOA's outdoor combination camera on a wall.

Finish	Base: Aluminum, light gray, paint Pipe: Stainless steel (SUS304)
Dimensions	140 (W) × 240 (H) × 188.1 (D)mm
Weight	1.3kg
Accessory	Camera mounting screw (M5×12, with washer) × 3

Note: pay attention to the strength of wall surface.



C-A711DM Smoked Dome Cover

The C-A711DM Smoked Dome Cover is specially designed to be used in conjunction with TOA's Combination Cameras.

The Dome Cover is used to make it difficult for individuals to see the camera's orientation.

Transmissivity	Approx. 30%*	
Finish	Dome: PC resin, smoked	
	Frame: PC resin, light gray	
Dimensions	ø219.8 × 128 (H)mm	
	(Dome external diameter: ø150mm)	
Weight	400g	

*As a general guideline, the minimum object illumination of the camera equipped with the Smoked Dome Cover is approximately 3.3 times that of the camera without the cover.

Note: Be careful when installing the camera with this cover in low illumination location as the cover may cause camera sensitivity to decrease.

C-CC574/C-CC564/C-CC51

COMBINATION DOME CAMERA (INDOOR USE)



C-CC574 FEATURES

- 255 preset positions + Home position
- 420X zoom (optical 35X, electronic 12X)
- Electronic Image Stabilizer
- Tilt rotation range +5° to -185° (using Auto-Flip function)
- Pan rotation range continuous 360°
- Pan/tilt maximum rotating speed is 360°/sec
- 1/4 type CCD image device
- 540 lines high resolution
- Wide dynamic range
- Autofocus
- · High-sensitivity function (color and B/W modes)
- · Preset sequency function
- Privacy masking function
- · Restricting camera movement
- Auto-trace function
- Auto-tour function
- Motion detection function
- Auto-pan function
- Preset image freeze function
 RS-485 protocol compatible

C-CC564 FEATURES

- 255 preset positions + Home position
- 276X zoom (optical 23X, electronic 12X)
- Tilt rotation range +5° to -185° (using Auto-Flip function)
- Pan rotation range continuous 360°
- Pan/tilt maximum rotating speed is 360°/sec
- 1/4 type CCD image device
- 480 lines high resolution
- Wide dynamic range
- Autofocus
- · High-sensitivity function (color and B/W modes)
- · Preset sequency function
- · Privacy masking function
- Restricting camera movement
- Auto-trace function
- Auto-tour function
- · Motion detection function
- Auto-pan function
- · Preset image freeze function
- RS-485 protocol compatible

■ C-CC574 SPECIFICATIONS

Power source	24V AC 50/60Hz	
1 0401 000100		
Power consumption	9W (normal operation), 19W max. (1.3A max.)	
Control	RS-485 communications system (new protocol compatible)	
Video Output	VBS 1.0V(p-p), 75Ω, BNC-R jack	
Camera Control Terminal	RS-485 camera control connector	
Alarm Input	8 channels, no-voltage make contact input, open voltage: 18V DC, short-circuit current; Under 2mA (settable alarm action)	
Auxiliary Contact Output	2 channels, open collector output, withstand voltage: 20V DC, permissible current. Under 100mA, relay contact output, permissible voltage: 20V DC, permissible current: Under 1A	
Synchronization	Internal synchronization/Power synchronization (phase adjustable when in power synchronization mode)	
ID	8 characters (alphanumeric and symbols) Camera, Position, Trace, Auto-pan, Tour, Home, Alarm, Sector, AUX	
No. of Preset Positions	255 Positions + Home	
Automatic Operation	Auto-pan, Preset sequence, Auto-trace (2 preset patterns (60s)), Tour (16 preset patterns)	
Timer	Refresh: Starts at the preset time every day or every week by timer settings Program: Settable 16 actions	
Language	Menu: English, German, French, Italian ID: English, German, French, Italian, Russian, Polish, Spanish, Portuguese	
Camera		
Image device	1/4 type CCD	
Resolution	Horizontal: 540 lines typ. (at center), 520 lines min	
S/N ratio	50dB	
Minimum Illumination	High-sensitivity function 0FF: 1 lx (350mV), 0.3 lx (140mV)	
	High-sensitivity function 0N: 0.005 lx (350mV), 0.0015 lx (140mV) (Sensitivity-UP)	
	High-sensitivity function OFF: 0.5 lx (350mV), 0.15 lx (140mV)	
	High-sensitivity function ON: 0.0025 lx (350mV), 0.00075 lx (140mV)	
Backlight Compensation	WIDE DYNAMIC/WIDE DYNAMIC 2/Pattern 1/Pattern 2/Pattern 3/OFF	
Dynamic Range	52dB (backlight compensation: WIDE DYNAMIC operation)	
High-Sensitivity Function	B/W mode and slow shutter mode (32 times max.)	
White Balance	ATW/AWB	
Iris	Automatic	
Flicker Reduction	Automatic correction	
Electronic Zooming	12x zooming	
Auto-Focus	One push/stop AF/continuous	
Lens	Toe.	
Zooming	35x	
Effective Focal Length	f = 3.4 – 119mm (35X)	
Effective Angle of View	Horizontal: 55.8° (W) – 1.7° (T), Vertical: 43.3° (W) – 1.3° (T)	
Maximum Aperture	F1.4 (W) – F4.2 (T)	
Zoom Speed	WIDE end to TELE end Approx. 2s (preset operation), Approx. 3.2s (manual operation)	
Pan/Tilt Head		
Rotating Range	Panning: Endless 360° rotation, Tilting: +5° to -185°	
Rotating Speed	Panning/Tilting: 360°/s max. (preset operation), 360°/s max. (manual operation)	
Other Function	Auto Dan Franza Dragat Manual Limit Drivage Marking (units 0)	
	Auto-Pan, Freeze Preset, Manual Limit, Privacy Masking (up to 8), Motion Detection (each 8 presets at each 4 positions), EIS	
Operating Temperature	-10°C to +50°C (continuously active for operation at temperature below 0°C)	
Operating Humidity	Under 90% RH (no condensation)	
Application	Indoor used	
Finish	Base: PC/ABS resin, cool gray, Camera: PC/ABS resin, black	
Dimensions	g168 × 234 (H)mm	
Weight	1.7kg	
Accessory	Camera mounting screw × 4, Safety wire × 1, CD-R (Camera controller software, manual (PDF)) × 1	
Option	Ceiling mount cover: C-BC511C, C-BC511C-S Flush ceiling mounting bracket: C-BC511U, C-BC511U-S Ceiling suspension bracket: C-BC511P, Wall mounting bracket: C-BC511W Ceiling mounting bracket: C-BC511A	

C-CC564 SPECIFICATIONS

Power source 24V AC, 50/60Hz

Power source	24V AU, 0U/0UПZ	
Power consumption	9W (normal operation), 19W max. (1.3A max.)	
Control	RS-485 communications system (new protocol compatible)	
Video Output	VBS 1.0V(p-p), 75Ω, BNC-R jack	
Camera Control Terminal	RS-485 camera control connector	
Alarm Input	8 channels, no-voltage make contact input, open voltage: 18V DC, short-circuit current, Under 2mA (settable alarm action)	
Auxiliary Contact Output	2 channels, open collector output, withstand voltage: 20V DC, permissible current: Under 100mA, relay contact output, permissible voltage: 110V DC, 125V AC, permissible current: Under 1A	
Synchronization	Internal synchronization/Power synchronization (phase adjustable when in power synchronization mode)	
ID	8 characters (alphanumeric and symbols) Camera, Position, Trace, Auto-pan, Tour, Home, Alarm, Sector, AUX	
No. of Preset Positions	255 Positionss + Home	
Automatic Operation	Auto-pan, Preset sequence, Auto-trace (2 preset patterns (60s)), Tour (16 preset patterns)	
Timer	Refresh: Starts at the preset time every day or every week by timer settings Program: Settable 16 actions	
Language	Menu: English, German, French, Italian ID: English, German, French, Italian, Russian, Polish, Spanish, Portuguese	
Camera		
Image device	1/4 type CCD	
Resolution	Horizontal: 480 lines (at center)	
S/N ratio	50dB	
Minimum Illumination	High-sensitivity function OFF: 3 lx (350mV), 1 lx (140mV) High-sensitivity function ON: 0.03 lx (350mV), 0.01 lx (140mV)	
Backlight Compensation	WIDE DYNAMIC/Pattern 1/Pattern 2/Pattern 3/OFF	
Dynamic Range	46dB (backlight compensation: WIDE DYNAMIC operation)	
High-Sensitivity Function	B/W mode and slow shutter mode (32 times max.)	
White Balance	ATW/AWB	
Iris	Automatic	
Flicker Reduction	Automatic correction	
Electronic Zooming	12x zooming	
Auto-Focus	One push/stop AF/continuous	
Lens		
Zooming	23x	
Effective Focal Length	f = 3.6 – 82.8mm (23X)	
Effective Angle of View	Horizontal: 54° (W) – 2.5° (T), Vertical: 41.6° (W) – 1.9° (T)	
Maximum Aperture	F 1.6 (W) – F 3.7 (T)	
Zoom Speed	WIDE end to TELE end Approx. 1.5s (preset operation), Approx. 2.9s (manual operation)	
Pan/Tilt Head		
Rotating Range	Panning: Endless 360° rotation, Tilting: +5° to -185°	
Rotating Speed	Panning/Tilting: 360°/s max. (preset operation), 360°/s max. (manual operation)	
Other Function	Auto-Pan, Freeze Preset, Manual Limit, Privacy Masking (up to 8), Motion Detection (each 8 presets at each 4 positions)	
Operating Temperature	=10°C to +50°C (continuously active for operation at temperature below 0°C)	
Operating Humidity	Under 90% RH (no condensation)	
Application	Indoor used	
Finish	Base: PC/ABS resin, cool gray	
	Camera: PC/ABS resin, black	
Dimensions	ø168 × 234 (H)mm	
Weight	1.7kg	
Accessory	Camera mounting screw × 4, Safety wire × 1, CD-R (Camera controller software, manual (PDF)) × 1	
Option	Ceiling mount cover: C-BC511C, C-BC511C-S Flush ceiling mounting bracket: C-BC511U, C-BC511U-S Ceiling suspension bracket: C-BC511P Wall mounting bracket: C-BC511W Ceiling mounting bracket: C-BC511A	

C-CC514 FEATURES

- 255 preset positions + Home position
- 264X zoom (optical 22X, electronic 12X)
- Tilt rotation range +5° to -90°
- Pan rotation range continuous 360°
- Pan/tilt maximum rotating speed is 360°/sec
- 1/4 type CCD image device
- 480 lines high resolution
- Autofocus
- High-sensitivity function (color mode)
- · Preset sequency function
- Restricting camera movement
- Auto-trace function
- Auto-tour function
- Auto-pan function
- RS-485 protocol compatible

Power source 24V AC. 50/60Hz

C-CC514 SPECIFICATIONS

Power source	24V AC, 50/60Hz	
Power consumption	9W (normal operation), 19W max. (1.3A max.).	
Control	RS-485 communications system (new protocol compatible)	
Video Output	VBS 1.0V(p-p), 75Ω, BNC-R jack	
Camera Control Terminal	RS-485 camera control connector	
Alarm Input	3 channels, no-voltage make contact input, open voltage: 18V DC, short-circuit current; Under 2mA (settable alarm action)	
Auxiliary Contact Output	1 channel, open collector output, withstand voltage: 20V DC, permissible current: Under 100mA	
Synchronization	Internal synchronization/power synchronization (phase adjustable when in power synchronization mode)	
ID	Reharders (alphanumeric and symbols) Camera, Position, Trace, Auto-pan, Tour, Home, Alarm, Sector, AUX	
No. of Preset Positions	255 Positionss + Home	
Automatic Operation	Auto-pan, Preset sequence, Auto-trace (2 preset patterns (60s)), Tour (16 preset patterns)	
Timer	Refresh: Starts at the preset time every day or every week by timer settings	
	Program: Settable 16 actions	
Language	Menu: English, German, French, Italian ID: English, German, French, Italian, Russian, Polish, Spanish, Portuguese	
Camera		
Image device	1/4 type CCD	
Resolution	Horizontal: 480 lines (at center)	
S/N ratio	50dB	
Minimum Illumination	High-sensitivity function OFF: 1 lx (350mV), 0.3 lx (140mV) High-sensitivity function ON: 0.03 lx (350mV), 0.01 lx (140mV)	
Backlight Compensation	Pattern 1/Pattern 2/Pattern 3/OFF	
High-Sensitivity Function	Slow shutter mode (32 times max.)	
White Balance	ATW/AWB	
Iris	Automatic	
Flicker Reduction	Automatic correction	
Electronic Zooming	12x zooming	
Auto-Focus	One push/stop AF/continuous	
Lens		
Zooming	22x	
Effective Focal Length	f = 4.0 – 88mm (22X)	
Effective Angle of View	Horizontal: 47.3° (W) – 2.2° (T), Vertical: 36.5° (W) – 1.7° (T)	
Maximum Aperture	F1.6 (W) – F3.8 (T)	
Zoom Speed	WIDE end to TELE end	
·	Approx. 1.3s (preset operation), Approx. 2.4s (manual operation)	
Pan/Tilt Head	I	
Rotating Range	Panning: Endless 360° rotation, Tilting: +5° to –90°	
Rotating Speed	Panning/Tilting: 360°/s max. (preset operation), 360°/s max. (manual operation)	
Other Function	Manual Limit	
Operating Temperature	-10°C to +50°C (continuously active for operation at temperature below 0°C)	
Operating Humidity	Under 90% RH (no condensation)	
Application	Indoor used	
Finish	Base: PC/ABS resin, cool gray	
	Camera: PC/ABS resin, black	
Dimensions	ø168 × 234 (H)mm	
Weight	1.7kg	
Accessory	Camera mounting screw × 4, Safety wire × 1, CD-R (Camera controller software, manual (PDF)) × 1	
Option	Ceiling mount cover: C-BC511C, C-BC511C-S Flush ceiling mounting bracket: C-BC511U, C-BC511U-S Ceiling suspension bracket: C-BC511P Wall mounting bracket: C-BC511W Ceiling mounting bracket: C-BC511A	

Brackets and Dome Covers



C-BC511A Ceiling Mounting Bracket

The C-BC511A is specially designed to mount TOA's Combination Cameras directly on the ceiling. The bracket facilitates mounting of the camera on the plasterboard in the double ceiling or other locations where the mounting screws cannot be installed securely

Finish	Surface-treated steel plate, black, paint
Dimensions	132 (W) × 30 (H) × 70 (D)mm
Weight	160g
Accessory	Camera mounting screw × 4, Safety wire × 1, Pattern paper × 1



C-BC511C Ceiling Mount Cover

The C-BC511C is a camera installation cover designed solely for mounting TOA's Combination Cameras. The cover is used when mounting the Combination camera directly to a ceiling or wall or suspending it from the ceiling.

Finish	nish Case: PC/ABS resin, cool gray, Dome cover: Acrylic resin, transparent	
Dimensions	Dimensions ø168 × 182.2 (H)mm (Dome external diameter: ø125mm)	
Weight	220g	



C-BC511C-S

Ceiling Mount Cover (Smoked)

The C-BC511C-S is a camera installation cover designed solely for mounting TOA's Combination Cameras. The cover is used when mounting the Combination camera directly to a ceiling or wall or suspending it from the ceiling. The cover is used to make it difficult for individuals to see the camera's orientation.

Transmissivity	Approx. 20%*	
Finish	Case: PC/ABS resin, cool gray, Dome cover: Acrylic resin, smoked	
Dimensions	Dimensions ø168 × 182.2 (H)mm (Dome external diameter: ø125mm)	
Weight	220g	

^{*}As a general guideline, the minimum object illumination of the camera equipped with the Ceiling Mount Cover is approximately 5 times that of the camera without the cover.

Note: Be careful when installing the camera with this cover in low illumination location as the cover may cause camera sensitivity to decrea



C-BC511U

Flush Ceiling Mounting Bracket

The C-BC511U bracket is designed to be exclusively used for flush ceiling mounting of TOA's combination camera. Use this bracket when mounting the camera to the ceiling surface where the fixing screws cannot be securely installed, such as on the plaster panel of the dual-construction ceiling. Also, use this bracket to minimize the exposure of the camera.

Finish	Bezel: PC/ABS resin, cool gray, Dome cover: Acrylic resin, transparent, Bracket: Aluminum, black, paint. Surface-treated steel plate, black, paint	
Dimensions	s ø250 × 282.7 (D)mm (Dome external diameter: ø125mm)	
Weight	Veight 1.2kg	
Accessory	ory Safety wire × 1, Pattern paper × 1	



C-BC511U-S

Flush Ceiling Mounting Bracket (Smoked)

The C-BC511U-S bracket is designed to be exclusively used for flush ceiling mounting of TOA's combination camera. Use this bracket when mounting the camera to the ceiling surface where the fixing screws cannot be securely installed, such as on the plaster panel of the dual-construction ceiling. Also, use this bracket to minimize the exposure of the camera. The bracket is used to make it difficult for individuals to see the camera's orientation.

Transmissivity	Approx. 20%*	
Finish	Bezel: PC/ABS resin, cool gray, Dome cover: Acrylic resin, smoked, Bracket: Aluminum, black, paint, Surface-treated steel plate, black, paint	
Dimensions	ø250 × 282.7 (D)mm (Dome external diameter: ø125mm)	
Weight	1.2kg	
Accessory	Safety wire × 1, Pattern paper × 1	

As a general guideline, the minimum object illumination of the camera equipped with the Flush Ceiling Mounting Bracket is approximately 5 times that of the camera without the bracket. Otco: Be careful when installing the camera with this bracket in low illumination location as the cover may cause camera sensitivity to decrease



C-BC511P

Ceiling Suspension Bracket

The C-BC511P is a Ceiling Suspension Bracket designed solely for suspending TOA's Combination Cameras from the ceiling.

	Finish	Top cover: PC/ABS resin, cool gray, Pipe: Stainless steel (SUS304). Bracket: Surface-treated steel plate, black, paint
	Dimensions	ø150 × 233mm
	Weight	1.2kg
Accessory Top cover \times 4, Safety wire \times 1, Pattern paper \times 1		Top cover × 4, Safety wire × 1, Pattern paper × 1



C-BC511W Wall Mounting Bracket

The C-BC511W Wall Mounting Bracket is specially designed to mount TOA's Combination Cameras to wall surfaces. Install the unit only in a location that can structurally support weight of the unit and camera.

Finish	Top cover: PC/ABS resin, cool gray, Pipe: Stainless steel (SUS304). Bracket: Surface-treated steel plate, black, paint	
Dimensions	150 (W) × 203 (H) × 203 (D)mm	
Weight	1.1kg	
Accessory	Top cover \times 4, Safety wire \times 1, Paper pattern \times 1	

C-RM500 REMOTE CONTROLLER

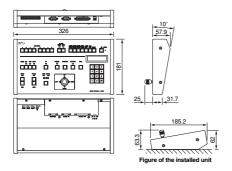


The C-RM500 Remote Controller is designed for use in camera-based systems that allow remote control from up to 1.2km away over RS-485 communication lines. It allows video images to be switched remotely and can handle a maximum of 16 TOA's Combination Dome Cameras when used together with the TOA Multiplexer. Easy-to-see LEDs inform status of control, alarm, focus and other functions.

FUNCTIONS

- Control up to 16 TOA's Combination Dome Cameras
- Instant position recall
- Controls Multiplexer
- Alarm capability
- 2 Location Control

APPEARANCE AND DIMENSIONAL DIAGRAM



SPECIFICATIONS

_ 000,0	
Power Source	12 V DC
Current Consumption	150 mA
Slave Remote Controller	RS-485, screwless connector
Camera Control	RS-485, screwless connector (*1)
Switcher Control	RS-485, screwless connector RS-232C, D-sub connector (9 pins, male)
Alarm Input	RS-232C, D-sub connector (9 pins, male)
Alarm Output/ Control Input	Alarm output: 16 channels, NPN open collector output, withstand voltage: 30 V DC, control current: 20 mA Alarm input: 1 channel, no-voltage make contact input, open voltage: 5 V DC, short-circuit current: 5 mA max. Home position selection input: 1 channel, no-voltage make contact input, open voltage: 5 V DC, short-circuit current: 5 mA max. D-sub connector (25-pins, female)
Display	LED indication of control status, alarm status, alarm hold status, still picture status, defroster, auxiliary setting, auto, auto focus, and lens speed LCD indication of key entry confirmation
Alarm Signal	Continuous alarm tone (can be turned on and off)
Number of Unit Connections	Up to 2 (one to be set for MASTER unit, another for SLAVE unit)
Maximum Cable Distance	1.2 km (*2) (between the Remote controller and the Combination cameras)
Operating Temperature	0°C to +50°C
Operating Humidity	Under 90% RH (no due condensation produced)
Finish	Panel: Surface-treated steel plate, sand gray, paint Sides: Rubber
Dimensions	326 (W) × 62 (H) × 185.2 (D) mm
Weight	1.8 kg
Accessory	D-sub connector (9 pins, male) \times 1, D-sub connector(25 pins, male) \times 1
Applicable Model (option)	Combination dome camera: C-CC504S/554S/514/564/574/ C-CC714/764/774 Switcher: C-MS161D, C-MS91D Slave remote controller: C-RM500 Interface unit: C-IF500 Alarm unit: C-AL80

(*1) Can connect up to 31 units mixing with combination cameras and interface units.
(*2) Applies to the system where the unit and combination camera are connected in a matched pair.
Represents the total of connected cable distances if multiple combination cameras or interface units are connected in the system (when the CPEV-S cable thicker than 0.65 mm in diameter is used).

C-RM1000

REMOTE CONTROLLER

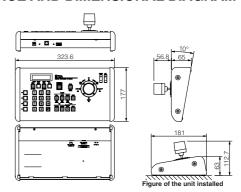


The C-RM1000 Remote Controller is used to remotely control the 9-CH/16-CH Digital Video Recorder (C-DR091/161 Series). It can also control combination cameras connected to the Digital Video Recorder. A built-in 3-axis joystick allows main operations to be performed with one hand.

FUNCTIONS

- Digital Video Recorder Control
- Screen Display Operation
- Combination Dome Camera Operation
- Preset Position Programming and Playback
- Quick Display Function
- Function Programming
- Digital Video Recorder Grouping
- Password Setting
- Monitor Locking
- Web Functions

APPEARANCE AND DIMENSIONAL DIAGRAM



SPECIFICATIONS

Power Source	12V DC (Supplied from the included AC adapter or from the digital video recorder)
Power Consumption	80mA (use of the supplied AC adapter)
Digital Video Recorder Control	RS-485, RJ-11 (6P6C) (when the included 5-meter modular cable is used) RS-485 screwless connector (3 pins) (with cable length of 3 meters and more, or when C-RF1000 is used)
Alarm Signal	Continuous alarm tone (can be turned on and off through the menu)
Maximum Cable Distance	1.2km*
Function	Password setting, DVR Group setting, Abbreviation function (512 types), Preset position setting, Language choice (English/French)
Operating Temperature	0°C to +40°C
Operating Humidity	Under 80% RH (no dew condensation)
Finish	Panel: Surface treated steel plate, silver, painted Sides: Rubber
Dimensions	323.6 (W) × 112.7 (H) × 181 (D) mm
Weight	1.6kg (excluding AC adapter)
Accessories	AC adapter (1.8m) \times 1, Modular cable (3m) \times 1
Applicable Model (option)	Digital Video Recorder: C-DR091/C-DR161 Series Interface Unit: C-RF1000

^{*} Appllies to the system where the unit and a digital video recorder are connected in a matched pair.

Represents the total of connected cable distances if multiple digital video recorders or Interface units are connected int the system.

INTERFACE UNIT



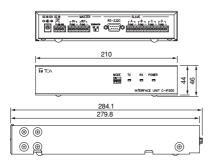
A useful option for configuring camera systems, the C-IF500 functions as a splitter. It provides control over expanding a camera system when the distance is over 1.2km (max. 3km) between the dedicated C-RM500 Remote Controller and system cameras linked to it. It will also allow configuring a star connection. Receiving the RS-485 communication line serial signals, the C-IF500 splits the signals into 4-channel data for slave units and converts into RS-232C data to be used for public line or fiber optics communication. Data communication between master and slave terminals is bidirectional. The C-IF500 also allows easily setting the data communication speed by DIP switch to suit network requirements.

ALARM UNIT

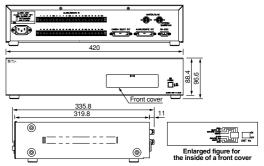


The C-AL80 Alarm Unit serves as the main controller for the alarm requirements of a system by converting alarm signals initiated by externally connected equipment into RS-232C-compatible signal data. In addition to its 32 alarm or remote inputs, the C-AL80 can also be linked to a maximum of 8 other C-AL80 units in master/ slave configurations. This provides a total of 256 alarm or remote inputs to be transmitted to the C-RM500 remote controller.

APPEARANCE AND DIMENSIONAL DIAGRAM



APPEARANCE AND DIMENSIONAL DIAGRAM



Unit: mm

SPECIFICATIONS

Power Source	12 V DC
Current Consumption	100 mA
External Control	Master: RS-485, screwless connector terminating resistance (100 Ω) switch ON/OFF Slave(*1): 4 channel, RS-485, screwless connector RS-232C, D-sub connector (9-pin, male)
Display	Power LED indicator, communication LED indicators (TX, RX)
Maximum Cable Distance	RS-485: 1.2 km (*²) RS-232C: 10 m
Communication Speed	4800 bps, 9600 bps, 19200 bps, 38400 bps
Operating Temperature	-10°C to +50°C
Operating Humidity	Under 90% RH (no due condensation produced)
Finish	Panel: Aluminum, black, 30% gloss, paint Case: Pre-coated steel plate, 30% gloss, black
Dimensions	210 (W) x 46 (H) x 284.1 (D) mm
Weight	1.4 kg
Option	Rack mounting bracket: M-15B-BK (for rack mounting one C-IF500 unit) MB-15B-J (for rack mounting two C-IF500 units)

(*1) Communications cannot be made between slave terminals.
 Each slave terminal can connect up to 31 cameras. (except RS-232C port)
 (*2) Applies to the system where the unit and combination camera are connected in a matched pair.
 Represents the total of connected cable distances if multiple combination cameras or Interface units are connected in the system (when the CPEV-S cable thicker than 0.65 mm

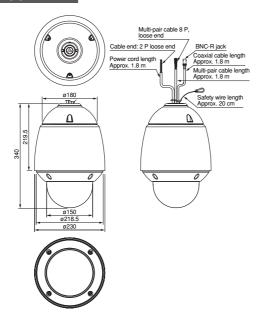
SPECIFICATIONS

Power Source	220 – 240 V AC, 50/60 Hz
Power Consumption	under 6 W (60mA)
Alarm/Remote Input	32 channels, no-voltage make contact input, open voltage: 5 V DC, short-circuit current: max. 5 mA, M3 screw terminal, distance between barriers: 7.62 mm
Control Input/Output	1 channel, RS-232C, D-sub connector (9 P, male) (only valid for master unit), fixed to 38,400 bps
Master/sub Connection Terminal	2 channels, RS-485, maximum cable length: 1200m, DIN connector (5 P)
Alarm Reset Input	1 channel, no-voltage make contact input, open voltage: 5 V DC, short-circuit current: max. 5 mA, D-sub connector (25 P)
Setting Switches	Master/Slave: 3-bit DIP switch (Selection of Master or Slave 1—7) Alarm/Remote: 1-bit DIP switch (Alarm/Remote selection) Alarm time: 1-bit DIP switch (Edge/Level selection) RS-485 terminal: Rear-mounted slide switch (RS-485 termination, Enable/Disable selection)
Application	Indoor use
Operating Temperature	0°C to +40°C
Finish	Panel: Aluminum extrusion, black, 30% gloss Case: Pre-coated steel plate, black, 30% gloss
Dimensions	420 (W) × 96.6 (H) × 335.8 (D) mm
Weight	3.6 kg
Accessory	DIN plug \times 2, RS-232C cable (2 m) \times 1, D-sub connector (25 P) \times 2, Power cord (2 m) \times 1
Option	Rack mounting bracket: MB-23B
Application Model	Remote controller: C-RM500

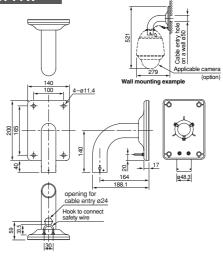
C-CC774/C-CC764/C-CC714

APPEARANCE AND DIMENSIONAL DIAGRAM

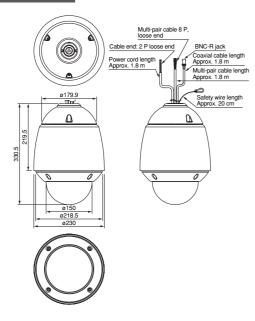
C-CC774



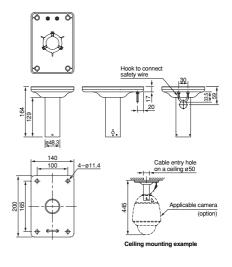
C-BC711W



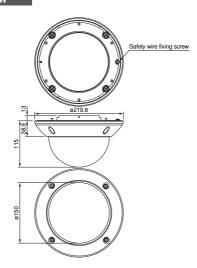
C-CC764/C-CC714



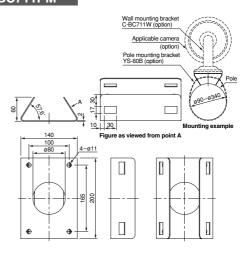
C-BC711P



C-A711DM



C-BC711PM

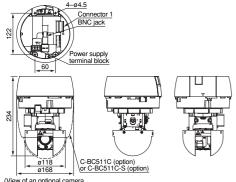


Unit: mm

C-CC574/C-CC564/C-CC514

APPEARANCE AND DIMENSIONAL DIAGRAM

C-CC574C-CC564/C-CC514



(View of an optional camera installation cover attached)

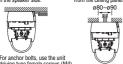


■INSTALLATION EXAMPLE

Mounting to a heavy-duty ceiling (such as a concrete ceiling)

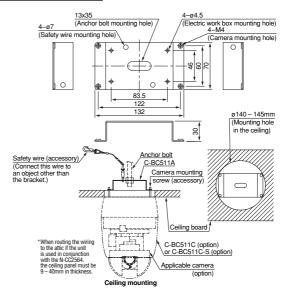
1. When routing both the coaxial, power cables and signal cable from the speaker side.

2. When routing both the coaxial, power cables and signal cable from the ceiling panel.

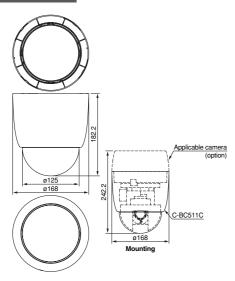


Anchor bolt (female screw) mounting distance

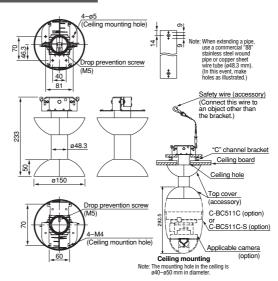
C-BC511A



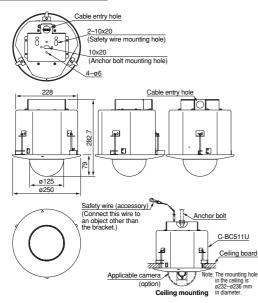
C-BC511C/C-BC511C-S



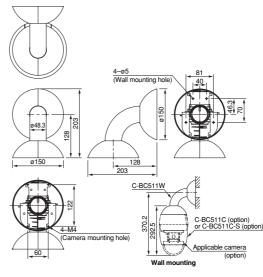
C-BC511P



C-BC511U/C-BC511U-S



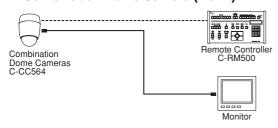
C-BC511W



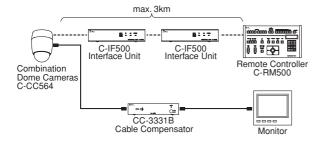
Unit: mm

SYSTEM EXAMPLES

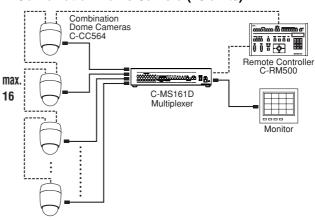
1. Combination Dome Camera (1 unit)



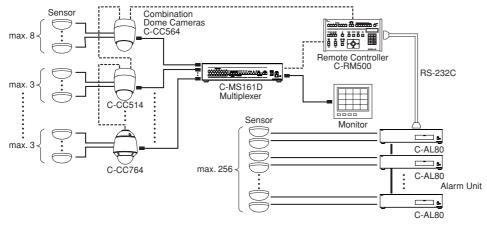
3. When Combination Dome Camera and Remote Controller are separated by more than 1.2km.



2. Combination Dome Camera (16 units)



4. Sensor-activated Dome Camera operation.



5. Digital Video Recorder System

