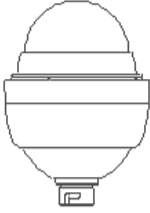
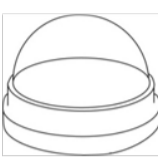

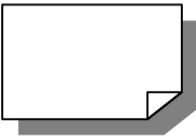
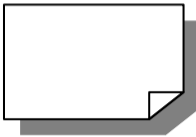
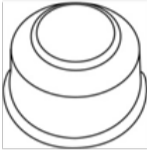
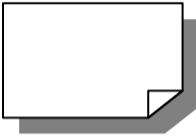

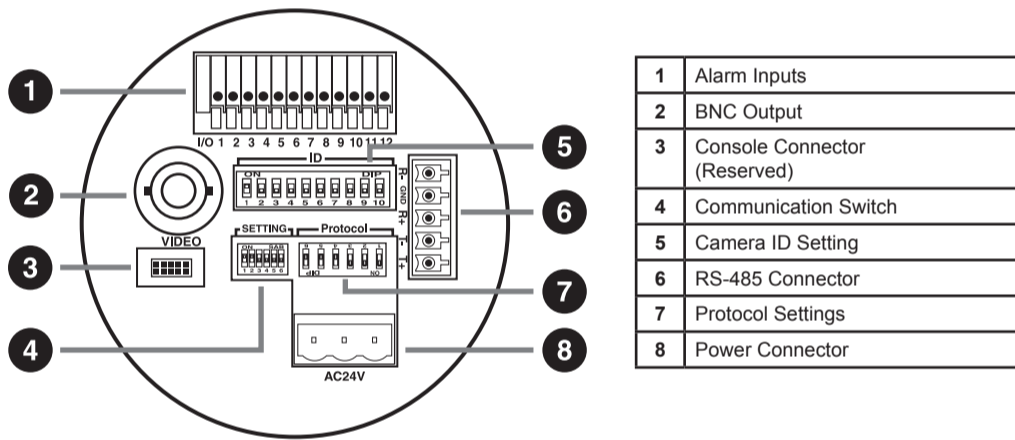


This quick operation guide is a quick reference for users to install and operate the dome camera and only provides basic information on the camera's settings and operation. Before attempting to connect, configure and operate the dome camera, please read the installation guide and the user manual thoroughly.

Box Contents

 CM-816 Camera	 Optical Cover	 Screws
 Quick Start Guide	 User Manual	 Waterproof Gasket
 Installation Manual		 Lubricant

Dome Switch Definition



Camera ID Setting

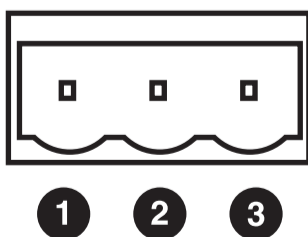
Change the camera ID if there is more than one camera on the same installation. The camera ID is set using the camera ID switch on the back plate of the camera. For switch configuration details, please refer to the user manual.



Note: No two cameras should have the same camera ID, or a communication conflict may occur.

Power Connector

Refer to this diagram for power connector definition before wiring.



1	AC IN +
2	Frame GND
3	AC IN -


Power Wire Length Specifications

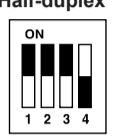
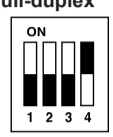
Wire Gauge	Maximum Distance
22	27 feet
20	44 feet
18	69 feet
16	110 feet

Wire Gauge	Maximum Distance
14	175 feet
12	279 feet
10	444 feet

Communication Switch Setting

The table below shows the function of each switch within the Communication Switch on the dome back plate.

Communication Switch	SW 1	RS-485 Setting
	SW 2	RS-485 Setting
	SW 3	Termination
	SW 4	Line Lock
	SW 5	System Initialization
	SW 6	Reserved

RS-485 Setting	
	

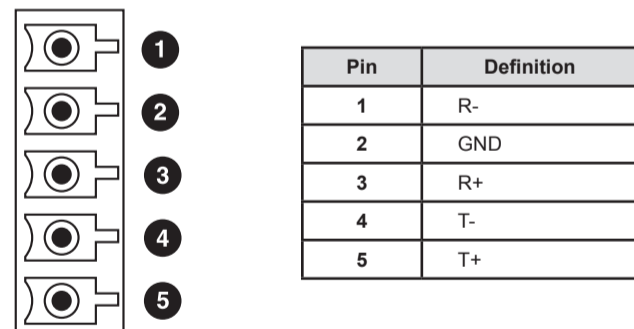
Dome Control Protocol Setting

Refer to the table below and select a protocol and baud rate appropriate for your installation, based on the control device. Adjust the Protocol Switch on the dome camera back plate. For example, the protocol switch should be set as shown if you are using the Pelco D protocol, with the switch number of 01 and a baud rate of 2400. For more switch configuration details, refer to the user manual.

Protocol	Baud Rate Setting	Switch Setting					
		1	2	3	4	5	6
VCL	9600	OFF	OFF	OFF	OFF	OFF	OFF
Pelco-D	2400	ON	OFF	OFF	OFF	OFF	OFF
Pelco-P	4800	OFF	ON	OFF	OFF	OFF	OFF
Chiper	9600	OFF	OFF	ON	OFF	OFF	OFF
Philips	9600	ON	OFF	ON	OFF	OFF	OFF
OPTIX-3	9600	ON	ON	ON	OFF	OFF	OFF
AD422	4800	OFF	OFF	OFF	ON	OFF	OFF
DP-P	9600	ON	OFF	OFF	ON	OFF	OFF
Pelco-D	4800	ON	ON	OFF	ON	OFF	OFF
Pelco-D	9600	OFF	OFF	ON	ON	OFF	OFF
Pelco-P	2400	ON	OFF	ON	ON	OFF	OFF
JVC	9600	ON	ON	ON	ON	OFF	OFF
Kalatel-485	9600	ON	OFF	ON	OFF	ON	OFF
Kalatel-422	4800	OFF	ON	ON	OFF	ON	OFF

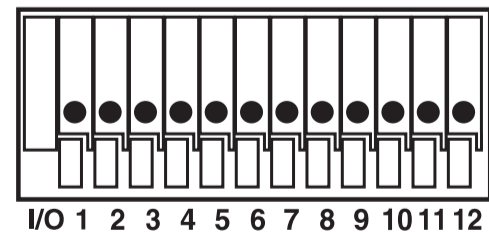
RS-485 Connector

The dome camera uses the RS-485 interface to communicate with a connected control device. Connect a control keyboard to the speed dome using the terminal block. OpenEye recommends using CAT 5 cables for RS-485 communication with a maximum length of 4000 feet (1219 meters) for 24-gauge wire. If the total cable length exceeds 4000 feet, use a repeater to maintain the signals. Refer to the table below for pin definition and wiring.



Apply Alarm I/O

The CM-512 supports 4 digital alarm inputs and 2 digital alarm outputs. Please make sure the alarm connections are properly wired before starting to configure alarm-related settings. Please refer to this pin definition table for alarm system wiring.



Pin	Definition	Pin	Definition
1	Alarm Out NO1	7	Alarm Out COM 2
2	Alarm Out NC 1	8	GND
3	Alarm Out COM 1	9	Alarm In 4
4	GND	10	Alarm In 3
5	Alarm Out NO 2	11	Alarm In 2
6	Alarm Out NC 2	12	Alarm In 1

Dome OSD Menu Tree

The OSD setup menu structure of the CM-511 camera is listed below. The star symbol indicates the factory default.

Item	Layer 1	Layer 2	Layer 3	Default		
LANGUAGE	<ENGLISH>, <JAPANESE>, <PORTUGUESE>, <SPANISH>, <FRENCH>, <GERMAN>, <ITALIAN>, <POLISH>, <RUSSIAN>, <TRADITIONAL CHINESE>, <SIMPLIFIED CHINESE>, <TURKISH>			ENGLISH		
DEFAULT CAMERA	<ON>, <OFF>			ON		
BACKLIGHT	<ON>			OFF		
	<OFF>					
FOCUS	AUTO	AF MODE <NORMAL>, <Z. TRIG.>, <PT TRIG.> EXIT + SAVE		NORMAL		
	MANUAL					
AE MODE	EXPOSURE COMP.	<OFF>, EXPOSURE VALUE: <-10.5dB> ~ <10.5dB> EXIT + SAVE: YES		OFF		
	AE MODE	AUTO	BRIGHT VALUE; SHUTTER SPEED; IRIS VALUE; GAIN VALUE: AUTO EXIT + SAVE: YES		AUTO	
		SHUTTER	SHUTTER SPEED: <1/60> ~ <1/10000> SEC. EXIT + SAVE: YES			
			IRIS	IRIS VALUE <F1.6> ~ <F28> EXIT + SAVE: YES		
		MANUAL		BRIGHT VALUE: AUTO		
	SHUTTER SPEED: <1/60> ~ <1/10000> SEC.					
	GAIN VALUE <-3> dB ~ <28>dB EXIT + SAVE: YES					
	EXIT + SAVE		YES			
	WBC MODE	AUTO (Auto White Balance)				AUTO
		INDOOR				
OUTDOOR						
ATW (Auto-tracing WBC)						
MANUAL		R GAIN <000> ~ <127> B GAIN <000> ~ <127> EXIT + SAVE: YES				
IMAGE CTRL	MAX DIGITAL ZOOM	<OFF>, <2x> ~ <12x>		OFF		
	SLOW SHUTTER	<ON>, <OFF>		OFF		
	D.N.R.	2 D.N.R. <ON>, <OFF>				
		3 D.N.R. <ON>, <OFF>				
		EXIT + SAVE: YES				
	IMAGE INVERSE	<ON>, <OFF>		OFF		
	FREEZE	<ON>, <OFF>		OFF		
	APERTURE	<01> ~ <16>		7		
STABILIZER	<ON>, <OFF>					
EXIT	YES					
TELEMETRY CTRL	FLIP	<OFF>, <M.E.>, <IMAGE>		OFF		
	ANGLE ADJUSTER	MIN ANGLE <-10 ~ +10 DEG>		0		
		MAX ANGLE <080 ~ 100 DEG>		90		
	SPEED BY ZOOM	<ON>, <OFF>		OFF		
	AUTO CALIBRATE	<ON>, <OFF>		OFF		
	PASSWORD	<ON>, <OFF>		OFF		
	OSD AUTO CLOSE	<OFF>, <10> ~ <30> SEC.				
	SYSTEM RESET	SYSTEM RESET <YES>				
		DEFAULT SYSTEM <YES>				
EXIT <YES>						
EXIT	YES					
ID DISPLAY	<ON>, <OFF>			ON		
TITLE DISPLAY	<ON>, <OFF>			OFF		
TITLE SETTING	<1> ~ <9>, <A> ~ <Z>, <.>, </>, <.>, <.>, <(>, <)>, <+>, <?>, <.>					
PRESET	PRESET SET	<001>~<256>		ENTER		
	PRESET RUN	<001>~<256>		ENTER		
	EXIT	YES				
TOUR	TOUR LINE	<1> ~ <8>		1		
	TOUR POINT	<01> ~ <64>		1		
	PRESET POS.	<001> ~ <255>, <END>		END		
	SPEED	<01> ~ <15>		1		
	DWELL TIME	<000> ~ <127> SEC.		0		
	RUN TOUR	ENTER				
	EXIT	YES				
AUTOSCAN	AUTOSCAN LINE	<1> ~ <4>		1		
	START POINT	<PT MOVE>, <TO SAVE>				
	END POINT	<PT MOVE>, <TO SAVE>				
	DIRECTION	<RIGHT>, <LEFT>		RIGHT		
	SPEED	<01> ~ <04>		1		
	RUN AUTOSCAN	ENTER				
	EXIT	YES				

Item	Layer 1	Layer 2	Layer 3	Default	
PATTERN	PATTERN LINE	<1> ~ <8>			
	RECORD START	ENTER			
	RECORD END	ENTER			
	RUN PATTERN	ENTER			
	EXIT	YES			
HOME SETTING	HOME FUNCTION	<ON>, <OFF>		OFF	
	SELECT MODE	<PRESET>, <TOUR>, <AUTOSCAN>, <PATTERN>		PRESET	
	PRESET POINT	<001> ~ <256>		1	
	RETURN TIME	<1> ~ <128> MIN.		1	
	GO	ENTER			
	EXIT	YES			
IR FUNCTION	<AUTO>	THREADHOLD <MID>, <HI>, <LOW> EXIT + SAVE: YES	AUTO		
	<MANUAL>	IR MANUAL <ON>, <OFF> EXIT + SAVE: YES			
ALARM SETTING	ALARM PIN	<1> ~ <8>		1	
	ALARM SWITCH	<ON>, <OFF>		OFF	
	ALARM TYPE	<NO> (Normal Open), <NC> (Normal Close)		NC	
	ALARM ACTION	<PRESET>, <TOUR>, <AUTOSCAN>, <PATTERN>		PRESET	
	PRESET POINT	<001> ~ <256>		1	
	TOUR LINE	<1> ~ <8>		1	
	AUTOSCAN LINE	<1> ~ <4>		1	
	PATTERN LINE	<1> ~ <8>		1	
	DWELL TIME	<001> ~ <127> Sec., <ALWAYS>		ALWAYS	
	EXIT	YES			
ALARM DETECT	NONE				
WDR FUNCTION	<ON>, <OFF>			OFF	
PRIVACY MASK	PRIVACY SWITCH	<ON>, <OFF>		OFF	
	TRANSPARENCY	<ON>, <OFF>		OFF	
	COLOR	<BLACK>, <WHITE>, <RED>, <GREEN>, <BLUE>, <CYAN>, <YELLOW>, <MAGENTA>, <MOSAIC 1>, <MOSAIC 2>, <MOSAIC 3>		BLACK	
	SET MASK	<01> ~ <20>		H CENTER: L/R V CENTER: D/U H SIZE <000> ~ <080> V SIZE <000> ~ <060> EXIT + SAVE	
		CLEAR MASK		<01> ~ <20>	
		EXIT		YES	
	TIME SETTING	TIME DISPLAY	<ON>, <OFF>		OFF
SET YEAR		<00> ~ <99>			
SET MONTH		<01> ~ <12>			
SET DAY		<00> ~ <31>			
SET HOUR		<00> ~ <23>			
SET MINUTE		<00> ~ <59>			
EXIT+SAVE					
SCHEDULE	SWITCH	<ON>, <OFF>		OFF	
	POINT	<01> ~ <32>		1	
	HOUR	<00> ~ <23>		0	
	MINUTE	<00> ~ <59>		0	
	MODE	NONE	NO FUNCTION		NONE
		PRESET	PRESET POINT <001> ~ <256>		
		TOUR	TOUR LINE <1> ~ <8>		
		AUTOSCAN	AUTOSCAN LINE <1> ~ <4>		
		PATTERN	PATTERN LINE <1> ~ <8>		
	IR FUNCTION	IR FUNCTION <AUTO>, <ON>, <OFF>			
SCHEDULE RESET	YES				
EXIT	YES				
EXIT OSD	YES				