

VIDEOJET connect 7000

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Invented for life



- ▶ Operates a variety of Bosch HD PTZ cameras, including MIC7000
- ▶ Bi-directional audio, Alarms, washer pump control, local storage slot for a CompactFlash (CF) memory card, built-in web browser for control of connected cameras
- ▶ One (1) HD-BaseT PoH dedicated for one RJ45 Ethernet port; three (3) RJ45 ports; two (2) SFP ports
- ▶ Support for daisy-chaining of multiple cameras

The device VIDEOJET connect 7000 (VJC-7000-90) is a full-featured network power supply unit that can operate a variety of Bosch PTZ cameras such as MIC7000. The device includes one (1) HPoE network connection, two (2) standard network interfaces for connections to additional IP devices, one (1) slot for an optional CompactFlash (CF) memory card, two (2) slots for use with SFP-based fiber optic modules, alarm/washer control interfaces*, and audio I/O*.

* **Note:** This feature is valid only for a MIC7000 camera "bound" to Camera 1.

System overview



Notice

For full functionality, a MIC7000 camera connected to VIDEOJET connect 7000 requires firmware version 5.93 or later. Download the firmware from <https://downloadstore.boschsecurity.com>.

Note: To achieve a distance of 100 m (328 ft) using Cat5e/Cat6e cable, Bosch recommends using cable with a minimum rating of 350 MHz.

Certifications and approvals

Electromagnetic Compatibility (EMC)

Complies with FCC Part 15 Class A, ICES-003, and CE regulations, including latest versions of EN 50130-4, EN 55022:2010, EN 61000-3-3, EN 61000-6-1, and EN 61000-6-2

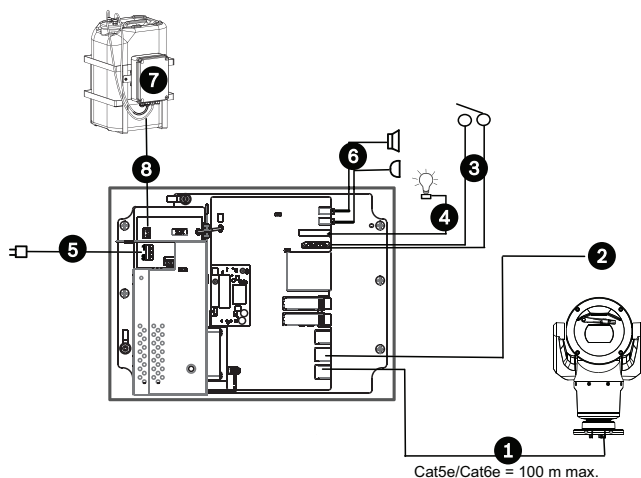
Product Safety

Complies with UL, CE, CSA, EN, and IEC Standards 60950-1 & 22

Ingress Protection Rating/Standard

IP66, IP67, NEMA Type 4

Installation/configuration notes



Basic configuration with VIDEOJET connect 7000

- 1 Ethernet (network) cable (Cat5e/Cat6e) (user-supplied) between a Bosch camera and the port labeled *PoE* on VIDEOJET connect 7000
- 2 Data-only IP cable (Cat5e/Cat6e) to the head-end network
Note: The cable to the head-end also can be fiber optic cable from one of the two SFP slots.
- 3 Alarm input / output interface cables (user-supplied)
- 4 Alarm output cables (user-supplied)
- 5 120 / 230 VAC, 50/60 Hz
- 6 Audio input / output interface cables (user-supplied)
- 7 External washer pump (user-supplied)
- 8 Washer output, 2-conductor (user-supplied)

Parts included

- One (1) VIDEOJET connect 7000 enclosure with three (3) M16 plugs, three (3) ¾" blanking plugs, and five (5) M16 gland locknuts installed
- Parts bag with:
 - one (1) terminal plug connector, 2-pin [for connections to optional washer]
 - one (1) terminal plug connector, 3-pin [for AC mains power input]
 - one (1) terminal plug connector, 6-pin [for alarm inputs]
 - one (1) terminal plug connector, 7-pin [for alarm outputs and for the supervised alarm input]
 - three (3) watertight M16 cable glands with O-rings
- Installation Manual

Technical specifications

Electrical

Power requirements	100 VAC - 240 VAC (90 VAC - 264 VAC with tolerance considered), 50/60 Hz, 1.6 A max.
Input power	184 W
HPoE output	95 W / 56V

Network

Communication	3x 10BASE-T/100BASE-TX/1000Base-TX If SFP fiber optic modules installed: 2x 1000 BASE-FX
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SFP Modules

SFP (small form-factor pluggable) slot	Two (2) for use with SFP-based fiber optic modules (1GB only) such as: • Agilent, SFP-GE-SX-MM850-A HFBR5710LP 7 • Cisco, GLC-LH-SM 1300nm • Cisco, GLC-SX-MM 850nm 8 • Finisar, FTLF8519P2BTL 850nm
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Audio

- Standard	G.711, 8 kHz sampling rate L16, 16 kHz sampling rate AAC, 16 kHz sampling rate
- Signal-to-Noise Ratio	>50 dB
- Audio Streaming	Bidirectional (full-duplex)

Storage

Local storage	One (1) slot for optional CompactFlash (CF) memory card, Type I / Type II, True IDE Mode, 1 TB max (user-supplied)
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Miscellaneous

Washer switch	Push button to activate/test the washer relay momentarily
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User Connections

Alarm Inputs	Four (4) normal dry contacts (selectable N.O./N.C.) Monitored supervised alarm input (Alarm 1), 2.2K ohm (Ω) end-of-line terminating resistor
Alarm Outputs	Three (3) open collector outputs, 32 VDC, 150 mA

Washer driver output	Dry contact relay, 250 V, 5 A
RJ45 connectors	(3) – one PoE/PoH, 95W max; two standard network connections suitable for interface to head end network and 'daisy chain' type connection to second camera or VJC-7000-90 location
Audio	
- connector	3.5 mm stereo jack
- signal line in	9 kohm typical, 5.5 Vpp max
- signal line out	3.0 Vpp at 10 kohm typical, 2.3 Vpp at 32 kohm typical, 1.7 Vpp at 16 ohm typical

Note: Audio OUT is not available in initial production units. A firmware update, expected in mid-2015, is required.

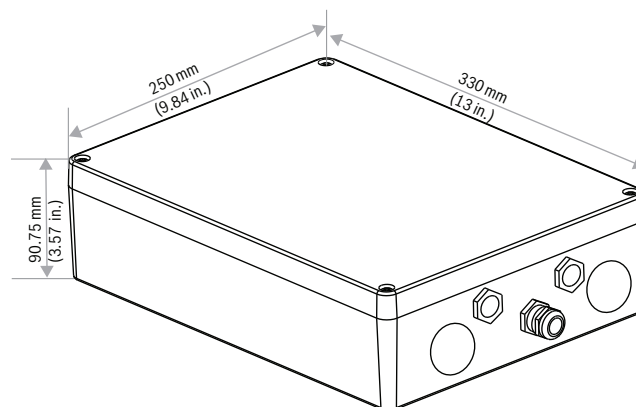
Environmental

Ingress Protection Rating/Standard	IP66, IP67, NEMA Type 4
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Temperature	-60 °C to +70 °C (-76 °F to +158 °F)
Humidity	0–100%

Construction

Dimensions (L x W x H)	330 mm x 250 mm x 90.75 mm (13 in. x 9.84 in. x 3.57 in.)
Weight	7.21 kg (15.9 lb)
Material	Powder-coated cast aluminum
Color	White (RAL 9010) with sand finish
Standard Finish	Powder coat paint, sand finish
Glands	Water-tight glands/seals, rated IP67, NEMA Type 4

Dimensional Drawings



Ordering information

VIDEOJET connect 7000

95 W, PoE IP power supply unit, 100 VAC - 240 VAC
(90 VAC - 264 VAC with tolerance considered), 50/60 Hz

Order number **VJC-7000-90**

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