



## Coax Controller Unit

### CAC1601

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- **Video Inputs:** 16 loop through C-Type channels
  - **Video Outputs:** 4 controllable monitor outputs (2 with PAL on-screen text)
  - **Telemetry inputs:** 2 RS485/1 dual channel, USB Telemetry channel
  - **Protocol support:** Siemens CCDA, Bewator Molynx, Bewator PC-CON, Ernitec ERNA, Pelco D, Pelco P, VCL, Vicon, Videmach Universal protocol
  - **Set up:** LCD with adjacent control keys

## Technical data

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### Electrical

Input Voltage (external PSU)	110 - 230 V AC +/- 10% @ 50/60 Hz 0.5 amp max.
Input Voltage (CAC1601)	12 V DC @ 1.25 amp, supplied from external PSU, Centre pin positive
Connections	Video: BNC Coax (75 Ohm CCTV cable), VBS 1.0 Vp-p, 75 Ohms PAL (Sync. Negative) Power: UK and EU (3-pin Schuko) mains IEC cable Telemetry: C-Type (Coax): BNC (75 Ohm CCTV cable) RS485: Screw Terminal Block (Twisted pair cable 100 - 120 Ohm) USB: Type B connector
Electromagnetic Compatibility	Compliant with EMC directive 89/336/EC Conforms to Part 15 of the FCC Rules, Class A digital device

### Mechanical

Mounting	19" Rack mount or direct wall fixing
Weight (Boxed)	2.5 kg
Colour	Primary colour: RAL7016 (anthracite gray) Stripes: RAL9006 (white aluminium)

### Environmental (Indoor only)

Operating Temp.	0 to +40°C
Humidity	20% to 80% (non-condensing)
Storage Temp.	-20 to +60°C
MTBF	35,000 hrs (electric parts)

### Functional

Control Output	COAX-control Molyntx-C
Video	16 Loop Through C-Type (Coax) channels
Output	4 monitor outputs (2 with text)
Interface	2 RS485 / 1 dual channel USB telemetry channels

## Details for ordering

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Type	Part no	Designation
CAC1601	2GF1194-8BM	Coax Controller Unit

## About CAC1601

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CAC1601 is a combined coaxial telemetry transmitter, telemetry protocol converter and 16 by 4 video switcher. It allows SIEMENS Solaris™ speed domes and telemetry receivers to be controlled over the coax using up to 2 simultaneous telemetry control sources, as detailed in the system overview below.

Over the coax telemetry control of PTZ cameras can provide major cost benefits over RS485 control by eliminating the need to run twisted pair cables for telemetry in addition to coaxial cable. This is particularly useful when upgrading existing fixed camera applications to fully functional dome systems.

Many digital recorders do not support over the coax telemetry as standard. CAC1601 has integrated video switching functionality (16 in / 4 out) that can be controlled via keyboard CKA4820 (version 2.25). This overall function set offers easy installation and flexible compact video surveillance systems.

Each unit accepts multi-protocol RS485 telemetry commands from up to 2 control sources and converts the command string to Molynx-C coaxial telemetry. The innovative LCD screen allows quick and simple set up, with on board test/diagnostic facilities. An integral USB port is configured to accept commands from SISTORE MX, or any third party PC front end delivering a supported protocol.



## Easy set up

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The CAC1601 is extremely easy to set up, using an LCD with adjacent control keys. The diagnostics function enables full on site test/verification of all circuitry contained within the unit. The LCD 'line video' mode enables verification of each video source without the need for a hand held monitor.

## Facilitated system expansions

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Up to two 16-channel units (total of 32 channels) can be connected together (with independent address settings), to facilitate significant system expansion.

## 4 controllable monitor outputs

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CAC1601 has four controllable monitor outputs. Two of these have programmable on-screen text, providing additional analogue spot monitor outputs which are often missing in compact solutions. Connected cameras can be switched to any of these monitors using the keyboard CKA4820 or suitable DVR.

