MOLYNX VIDEMECH

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PRODUCT BULLETIN

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CCTV TELEMETRY PROTOCOLS

INTERFACING TO MOLYNX VIDEMECH CONTROL EQUIPMENT ("PC-CON PROTOCOL")

In order to allow 3rd party equipment to be fully, easily and reliably interfaced to Molynx Videmech control equipment (such as CR2000, 600 Series, 6000 Series and Visilynx as well as direct connection to Molynx telemetry receivers using twisted pair "D-Type" telemetry) we recommend the use of PC-CON protocol. Molynx "PC-CON Protocol" is public domain and freely available from Molynx Videmech.

Using "PC-CON Protocol" Molynx Videmech equipment can be controlled using RS232 ASCII text characters generated by 3rd party equipment (such as a PC's serial port), all that is required is a PC-CON interface is fitted to the Molynx equipment in order to convert PC-CON commands into Molynx telemetry. This interface completely takes care of all handshaking and timing constraints required by the full Molynx telemetry protocol minimising software development and testing time.

For the CR2000, 600 Series, 6000 Series and directly connected telemetry receivers, one TX-PC interface unit is required for each PC-CON telemetry link. For Visilynx one PCBV309S182 card per link is needed.

VIDEMECH "UNIVERSAL PROTOCOL" (UP)

The Videmech 150 telemetry receiver family used Videmech "Universal Protocol" (UP), which is public domain and freely available from Molynx Videmech. "Universal Protocol" is transmitted over RS422 (twisted pair). This protocol is also supported in OEM products.

PELCO D PROTOCOL

Molynx Videmech Surcha domes are compatible with control equipment transmitting "Pelco D" protocol over RS422 (twisted pair).

PHOTON PROTOCOL

The Surcha domes are also compatible with control equipment transmitting Photon's telemetry protocol.

INTERFACING TO MOLYNX VIDEMECH DOMES

The following domes or dome cameras are capable of being directly connected to Molynx Telemetry Transmitters (600 Series, 6000 Series, CR2000 and Visilynx) over both C and D type telemetry.

- Videmech 500 Series with Integral Receiver 15", 18" and Heritage
- Videmech 5" Fast Dome
- Surcha 8" Mini Dome

INTERFACING TO 3RD PARTY DOMES

By using a TX-DOME interface with 600 Series, 6000 Series and CR2000, and by fitting a PCBV309S190 dome interface card to a Visilynx matrix, currently the following 3rd party manufacturers' domes can be controlled by Molynx telemetry control equipment. (It should be noted that control is over D-type (RS485) only except were stated.)

- JVC TK-C675E / TK-C675BE
- Panasonic WV-CSR400 / WV-CSR600 / WV-CSR650 / WV-CSR850
- Star Micronics MD-1200
- Photo-Scan FA60 Photo-Scanner
- Dennard 2050
- Philips Autodome (RS232 control only)
- Ultrak Diamond
- VCL

Our policy is that we will continue to support new domes from 3rd party manufacturers in this way in the future, where there is justification in terms of potential sales of our control equipment, and where the dome manufacturer is prepared to release their dome control protocol to us. This is the only way that 3rd party domes will be supported by Molynx telemetry control systems. We will not release the Molynx data protocol to 3rd party dome manufacturers as this will nullify the advantage that our own family of domes have of being able to control them using C or D-type telemetry and not requiring an interface.

MOLYNX PROTOCOL

For the vast majority of applications the use of the dome, "PC-CON" or "Universal Protocol" interfaces as described above permit 3rd party equipment to be controlled by, or to control Molynx Videmech CCTV equipment.

The Molynx data protocol is Company Confidential and is only disclosed under a confidentiality agreement to a 3rd party with the prior agreement of the Managing Director of Bewator Group Limited or the Divisional Director of Molynx Videmech, if there is a business justification for doing so.