

KEY FEATURES

● MS-KBD1010-IP



- Cross Protocol Mix-control with RS232/RS422 and IP in one single system.
- Protocol support: Visca, Visca-Over-IP, Pelco D/P, Onvif IP
- Multiple controllers control up to total 255 IP/VISCA/PELCO cameras on a single system.
- Supports any brand of Visca Over IP cameras in a same system.
- 3-Way simultaneous joystick control.
- Supports video router camera switching with PTZ camera control
- Power: 12VDC, Independent power over control, POE. Wide range power voltage tolerance: 5V – 48V, provides longer distance power run and suitable for vehicle use.

FUNCTIONALITY

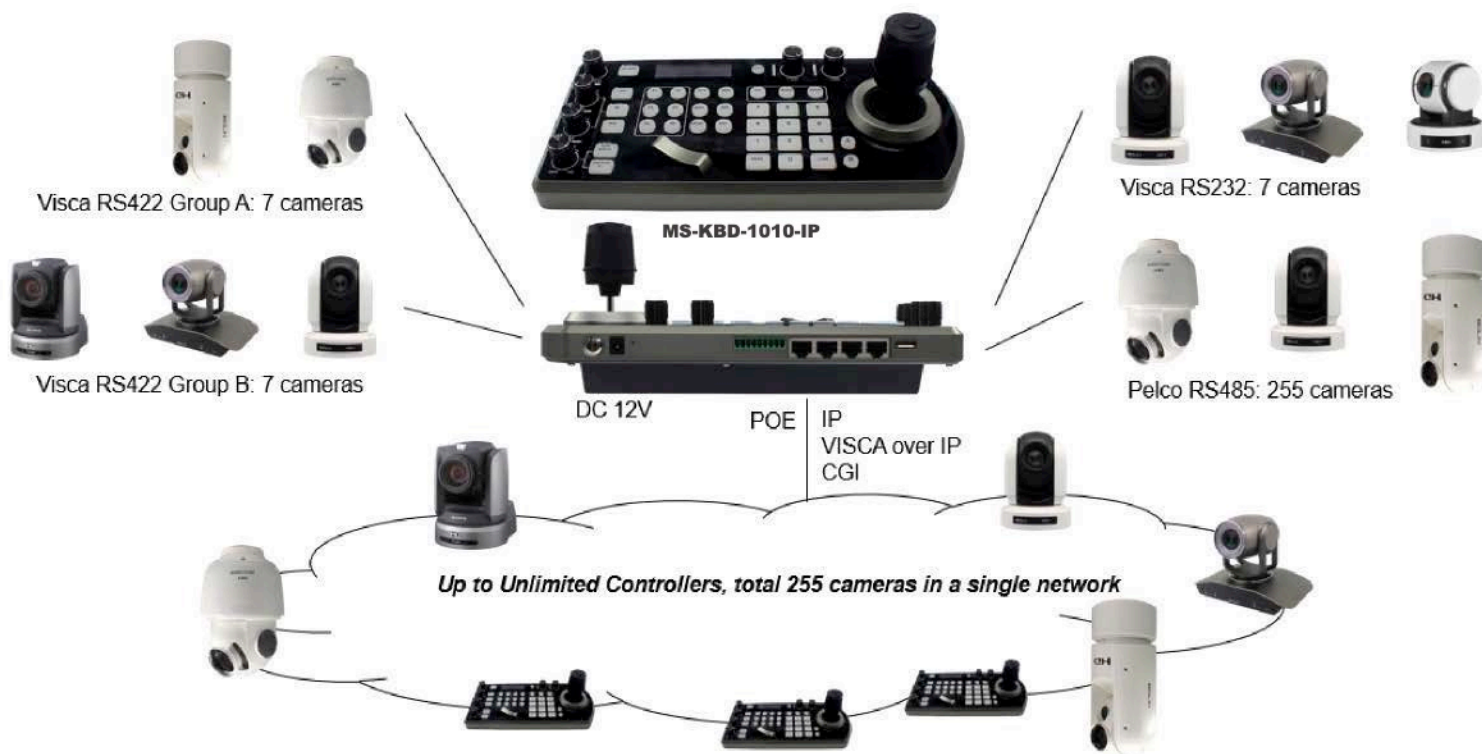
- Easy, ergonomic PTZ control of multiple remote cameras for live event production and content creation. Applications: Education, Broadcast, Video Conferencing, House of Worship etc.
- This compact remote controller features a high-quality joystick that allows effortless one-handed pan, tilt and zoom adjustments. Zoom can also be controlled via the joystick or a supplementary seesaw lever; dedicated knobs and control buttons simplify direct access to frequently-needed camera functions without needing to use the camera menus.
- Quick Access features include the control of Exposure, Shutter Speed, Iris, Compensation, White Balance, Focus, PT Speed, Zoom Speed.
- The controller supports serial RS232/RS422 and IP mix-control. It allows you to use RS232/RS422/IP control on one controller to control cameras in a single system.
- With IP control, automatically search available IP cameras in the network and assign IP addresses easily. IP control supports Visca Over IP, Onvif IP.
- Supports 2 groups of 7 cameras per group (2x7) via Visca RS422 daisy chain control. Up to unlimited controllers can operate on a single network to control up to total 255 analog/IP cameras.
- Multi-color Key/Button illumination indicates the status of the camera and control functions.
- Provides PTZ camera configuration file export/import via IP interface capability to duplicate the keyboard setting to multiple keyboards.
- Up to 255 camera presets with memory of image parameters and 8 patterns/cruises to recall camera moves. (Requires camera support)
- Up to 6 selectable ASSIGN function key, additional functions can be assigned to ASSIGN buttons.
- Full compatibility is provided with all Bolin PTZ cameras and Sony BRC,SRG series PTZ cameras and most PTZ cameras in the market that support RS232/RS422/RS485/IP control.
- Compatible with Black Magic SDI video router, to switch camera on the router with PTZ camera control.
- Control firmware upgrade is available via USB and IP to keep the performance of the controller up to date.
- Tally Indicator: Includes Normal Tally/On-Air Tally/Contact Modes
- Available both 12VDC and POE power input. Power over control using the Junction Box included. Wide range power voltage tolerance: 5V – 48V, provides longer distance power run and suitable for vehicle use.



Keyboard Controller and Junction Box included

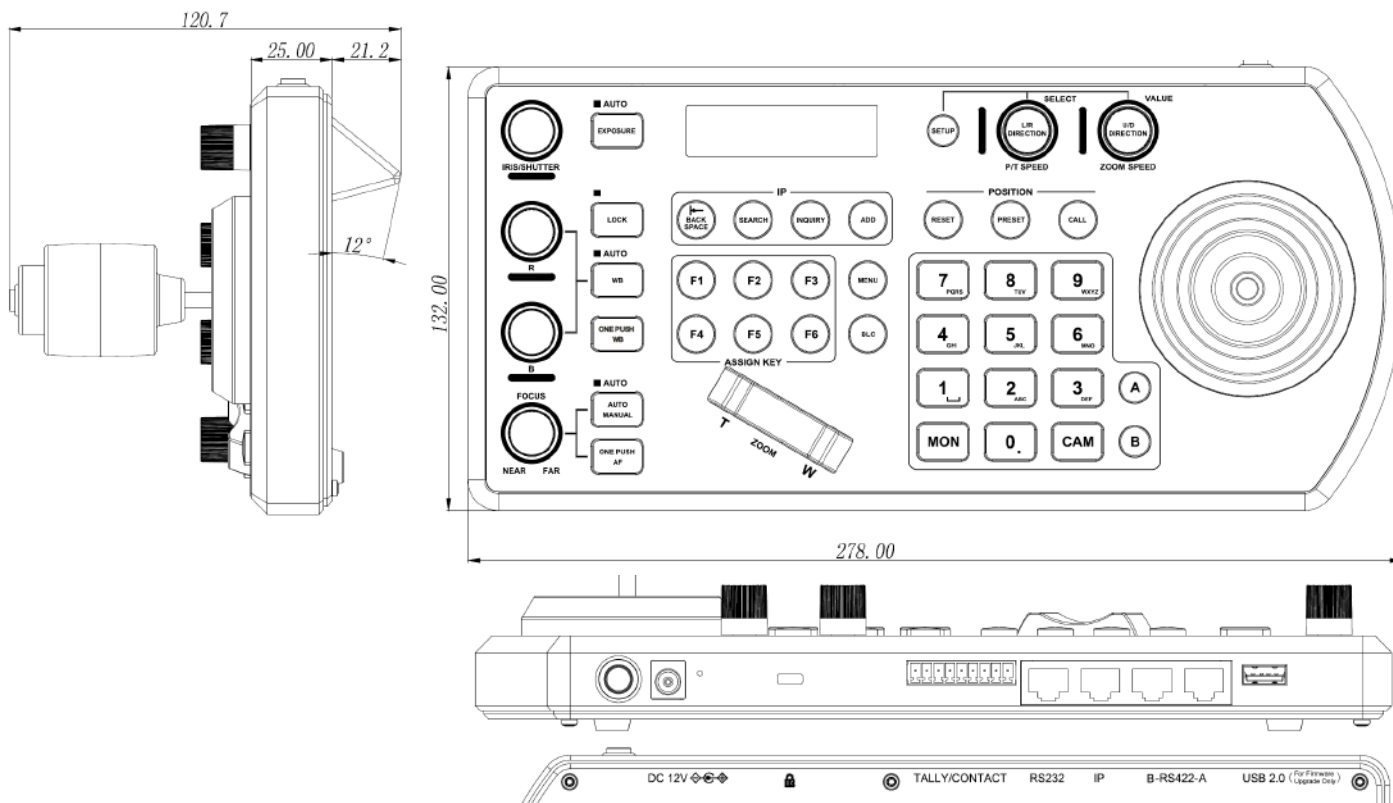
* Features to be supported on future firmware release.

PTZ Camera Remote Controller



Cross Protocol Mix-control with RS232/RS422 and IP in one single system.

Dimensions Unit:mm



Product Specification

Model No.	MS-KBD1010-IP
Input/Output Connectors	
Control Input/Output	RS232: RJ45 x1 RS422: RJ45 x2 LAN: RJ-45 x 1, 10BASE-T/100BASE-TX automatically detected Tally In/Contact Out: 9pin x1 USB2.0*: Type A x1
Control Signal Format	Baud Rate: 2400/4800/9600/19200/38400 (For RS232、RS422) VISCA over IP communication
Power Connector	JEITA type 4 (12VDC), RJ45x1 for POE (IEEE 802.3af), RJ45x3 for Power Over Control
Firmware Upgrade	USB2.0 for FW Upgrade Only
User Interface	
Display	LED
Speed Control	Yes, 2 Knobs (Pan/Tilt, Zoom)
Zoom Seesaw Lever	Yes
Zoom Ring of Joystick	Yes
ASSIGN Button	Yes, 6
3-Way Simultaneously Control	Yes, Pan+Tilt+Zoom
Camera Control	
Maximum Camera Control	Allow to control up to total 255 cameras with combining multiple protocols use in a single system.
Maximum IP Connections	Onvif/VISCA Over IP: 255
Maximum Serial Connections	RS232: 7(VISCA), RS422: 2x7 (VISCA), RS485:255(Pelco P/D)
Control Protocol	Pelco P/D over RS485, Visca over RS232/RS422 Onvif, VISCA over IP
Max Controller Qty/System	255 via IP control
Key/Button Illumination	Yes, multi-color LED indicators
Third-Party Device Support	Black Magic SDI router/switch, Control type: RS422, Control Method: Camera switching with PTZ control File of PTZ camera configuration and keyboard setting Export/Import via IP
Direction Function of Buttons/Knobs (Limited to Pelco Control)	
Exposure Model Selection	Yes, Button + Knob, Full Auto, Iris Priority, Shutter Priority, Manual Iris Gain, Manual Shutter Gain, Black Level.
OPW Auto Adjustment	Yes, Button
BLC	Yes, Button
Display the Status of	Yes
WB Model Selection	Yes, Button
R,B Gain Adjustment	Yes, Knob
Iris Value Adjustment	Yes, Knob
Shutter Speed Adjustment	Yes, Knob
Focus Model Selection	Yes, Button
One-Push Auto Focus	Yes, Button
Manual Focus	Yes, Knob
General	
Power/Input & Voltage	Independent power input 12VDC voltage tolerance 6V~48V, POE(IEEE802.3at), Power over RS422/232 via Junction Box included. Power transmit up to 80-100 meters, 48VDC for vehicle use
Current Consumption	6W
Operation Temperature	0°C~40°C, (32°F to 104°F)
Storage Temperature	-20°C~60°C, (-4°F to 140°F)
Dimensions	278 mm x 132 mm x 99.5 mm (Without Base Bracket)
Weight	1kg (Without Base Bracket)
Supplied accessories	Power Adapter and power core (110VAC~220VAC to 12VDC/2A) x1, Junction Box and Control Cable x 1, Magnetic Base Bracket x1, Tally
Optional accessories	RJ45 Adapter for RS232 + RJ45 Coupler, RJ45 Adapter for RS422 + RJ45 Coupler
Notes	Available functions/specifications depend on camera specification Functions may differ based on different version of the firmware. * USB2.0 for firmware upgrade only.

ORDER INFORMATION

- MS-KBD1010-IP RS232/RS422/RS485, IP-Onvif, Visca-Over-IP
- MS-KBD-422232 (RJ45 to RS232/422 Cable Adapter+RJ45 Coupler)
- MS-KBD-JB01 (Junction Box)