



VISCA & DMX Connectivity

PTX Universal PanTilt heads are compatible with VISCA and DMX controllers, integrating pan and tilt functionality with available camera control parameters.

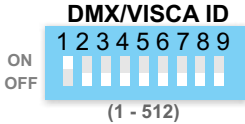
AJA • ARRI • Blackmagic • Canon • Datavideo
GoPro • JVC • Marshall • Panasonic • RED
Sony • Vaddio (and others)

PTX Control Connections

DMX control Connect to the heads using standard three-conductor XLR cables, and use the PTX Channel Guides to integrate the PTX fixtures into your lighting universes.

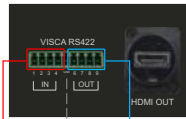


Set the DMX/VISCA ID DIP swx to match the ID number for the PTX fixture.
The default for DMX is 1 ON.



Download the **DMX / DIP SWITCH CALCULATOR** on the PTX page of the RUSHWORKS website: www.RUSHWORKS.tv

VISCA control Connect to the heads using a 9-pin Phoenix connector on CAT5 or similar cable. The PTX heads use RS422 full-duplex communications protocol from the controller.



1 TxD In +	6 TxD Out +
2 TxD In -	7 TxD Out -
3 RxD In +	8 RxD Out +
4 RxD In -	9 RxD Out -

5 GND (common)

MODE



MODE SWX

SW	ON	OFF
1	VISCA	DMX
2	VISCA	L/P
3	38400	9600
4	422/485	232
5	422	485
6	NORM	FW

The default for VISCA is ALL ON.

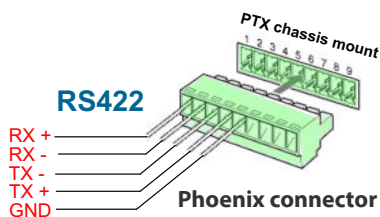
MODE SWX FUNCTIONS

- 1 Sets the **CONTROLLER** device type
- 2 Identifies the **CAMERA** device type: VISCA or LANC/Panasonic Remote
- 3 Sets the BAUD rate of the connected camera if Camera is VISCA
- 4 Sets the serial communications protocol the VISCA camera requires
- 5 IF SW4 is 422/485, select which protocol the camera requires
- 6 Set to FW for firmware upgrades

Refer to the information sheet "Understanding the Settings and Functions of the DMX/VISCA ID and MODE DIP Switches".

VISCA

RUSHWORKS
VDESK, REMO
Ctrl+R
OTHER SWITCHERS
& CONTROLLERS

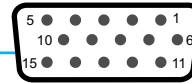
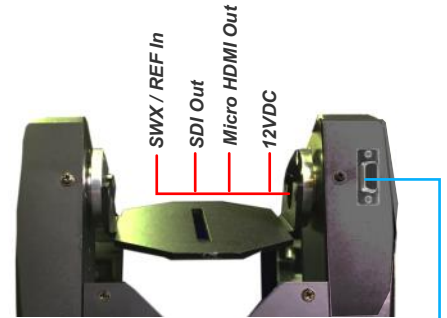


Camera Connections

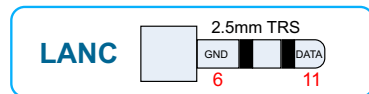
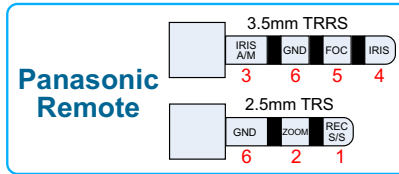
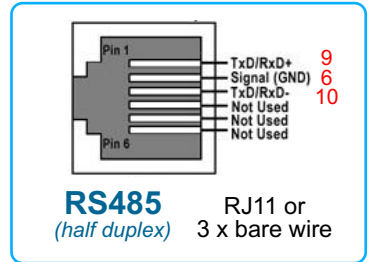
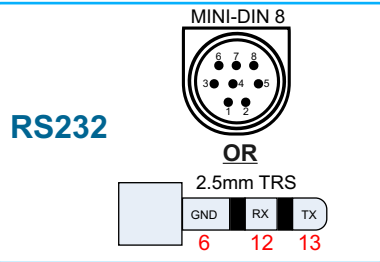
The internal cable bundle includes SWX/REF In (coax), SDI Out (coax), Micro HDMI Out, and a wire with a dual screw terminal connector that provides 12VDC for many cameras.

PTX-to-camera control connections are on the HD15 connector on the arm of the fixture. Use the information below to configure the appropriate short cable from the HD15 to your camera.

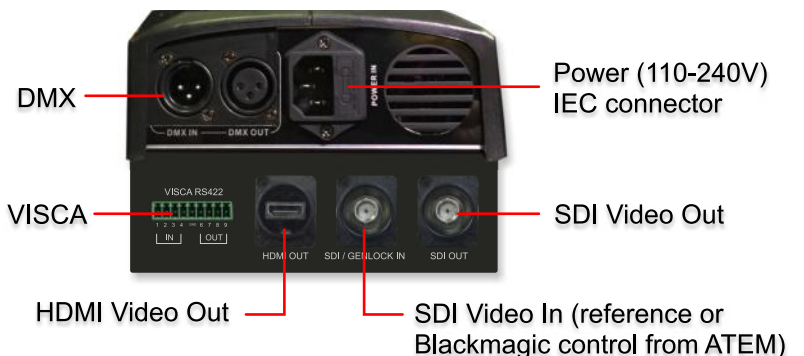
Cables can also be ordered from RUSHWORKS. These support camera connections using RS422, RS232, RS485, LANC and Panasonic Remote.



- | | | |
|---------------------------|--------------|----------------|
| 1 = PANA Rec Start/Stop | 6 = Ground | 11 = LANC Data |
| 2 = PANA Zoom | 7 = 422 TX+ | 12 = 232 TX |
| 3 = PANA Iris Auto/Manual | 8 = 422 TX- | 13 = 232 RX |
| 4 = PANA Iris | 9 = 422 RX+ | 14 = none |
| 5 = PANA Focus | 10 = 422 RX- | 15 = none |

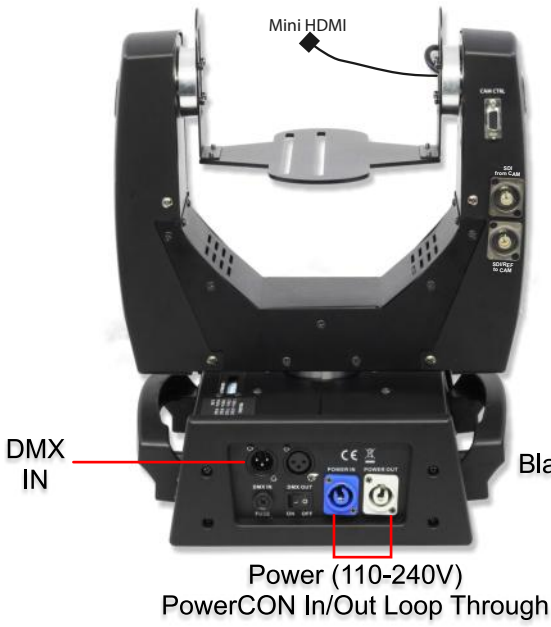


Model 1

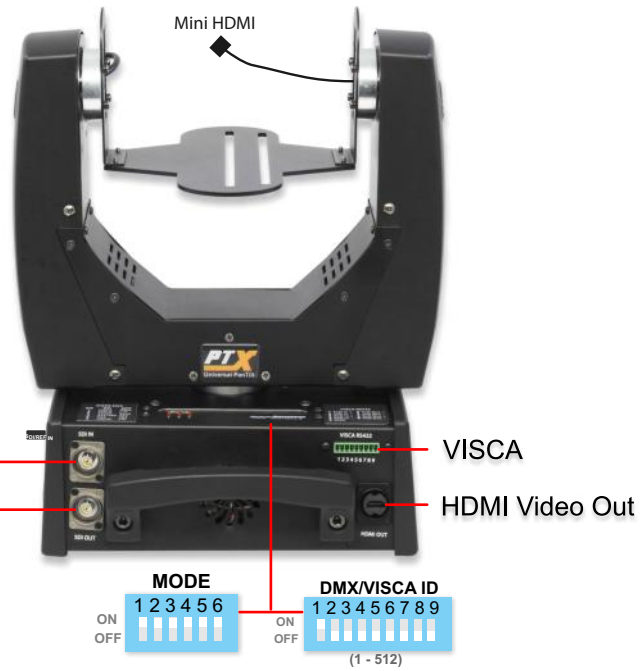




Model 2



SDI Video In (reference or Blackmagic control from ATEM)
SDI Video Out



MODE SWX		
SW	ON	OFF
1	VISCA	DMX
2	38400	9600
3	VISCAM	OTHER
4	232	422/485
5	485	422
6	FW	NORM

VISCA RS422		
1	TxD In +	6 TxD Out +
2	TxD In -	7 TxD Out -
3	RxD In +	8 RxD Out +
4	RxD In -	9 RxD Out -
5	GND	

Reference label on PTX head

Use DIP switches to set
MODE and DMX/VISCA ID

Cameras on the PTX Model 2 must be self-powered using their own power supply and/or battery.



To minimize stress on the internal wiring bundle during head activity, the two BNCs for the coax lines coming TO the camera are on the base of the PTX.

These are connected internally to the two BNC connectors on the rotating arm of the head.

Blackmagic cameras use the SDI out from ATEM switchers for multi-function camera control. For other cameras that support external genlock, use the SDI/REF connections on the base and arm.



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