VISCA & DMX Connectivity

AJA • ARRI • Blackmagic • Canon • GoPro
JVC • Marshall • Panasonic • RED • Sony

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

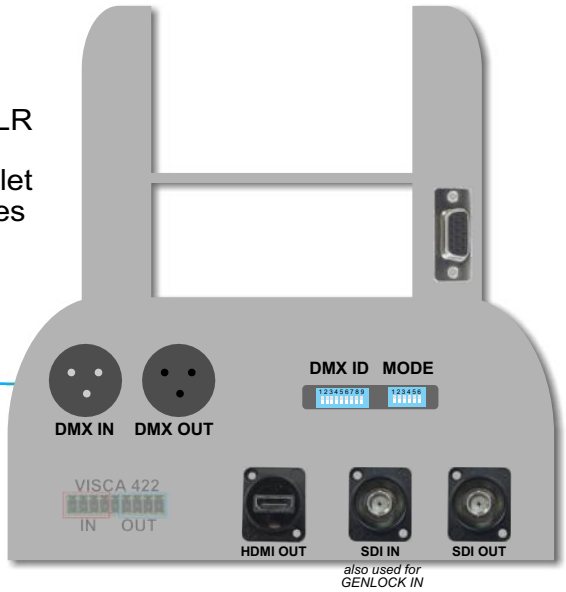
For DMX control

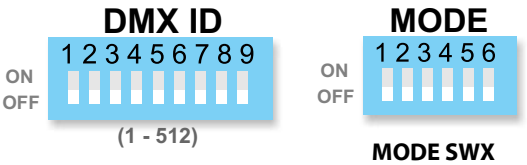
Connect to the heads using standard three-conductor XLR cables, and download the published PTX Profiles that let you integrate the PTX fixtures into your lighting universes.

CONTROLLER

DMX
CONSOLES
&
SOFTWARE

Use standard XLR microphone cable for DMX IN and OUT.





Set the DMX ID DIP swx to match the ID number you set for the fixture using the menu on the front panel of the PTX.

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

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

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 this to FW for firmware upgrades

For VISCA control

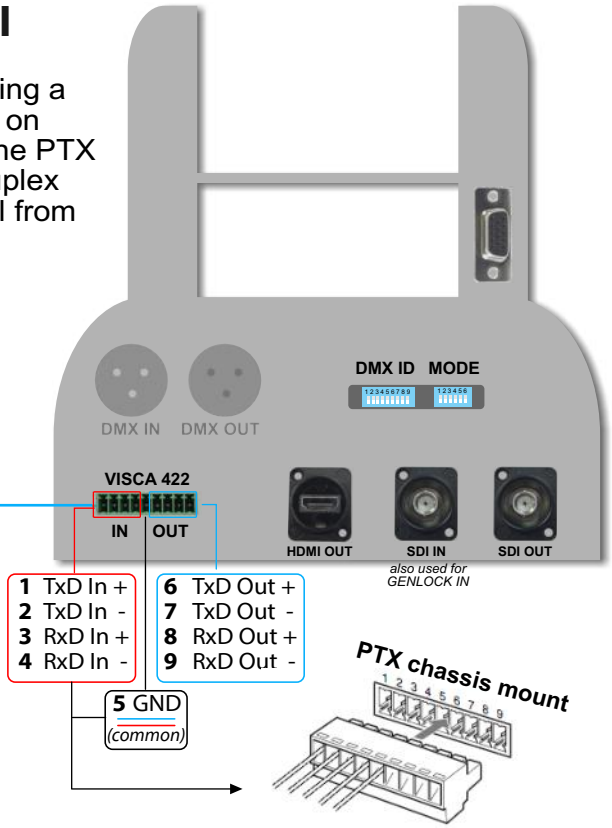
Connect to the heads using a 9-pin Phoenix connector on CAT5 or similar cable. The PTX heads use RS422 full-duplex communications protocol from the controller.

CONTROLLER

VISCA
RUSHWORKS
VDESK, REMO
& Ctrl+R

SWITCHERS &
HARDWARE
DEVICES

Use CAT 5 or similar cable that supports RS422 (5 pin) data communications.



Phoenix connector on cable from CONTROLLER

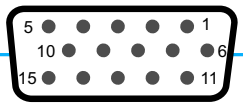
Connecting your Camera to the PTX

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

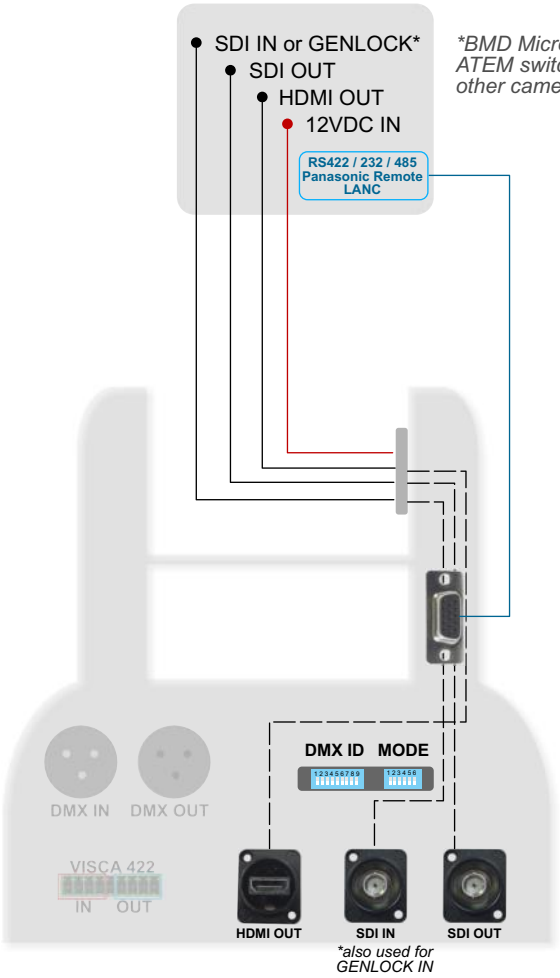
Cables can also be ordered from RUSHWORKS. These support camera connections using RS422, RS232, RS485, LANC and Panasonic Remote.

HD15 OUT

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

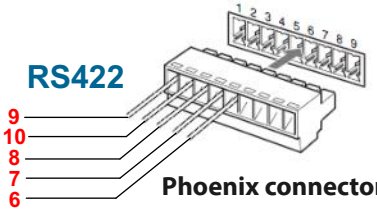


OUTPUT CONNECTORS
(from HD15 to cameras)



**BMD Micro Studio 4K uses SDI IN from ATEM switchers. Use this connection for other cameras if GENLOCK IN is needed.*

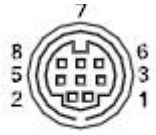
RS422



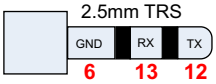
AJA RovoCam

MINI-DIN 8

OR

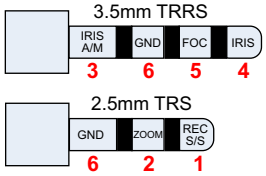


RS232 OR



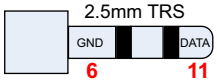
Several Models

Panasonic Remote



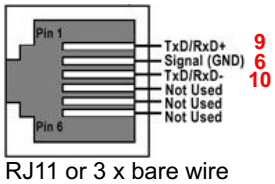
Sony, Canon, JVC Blackmagic

LANC



Marshall

RS485
(half duplex)



RJ11 or 3 x bare wire

www.RUSHWORKS.tv
888.894.7874
+1 469.293.1024

Information subject to change at any time

©2017 RUSHWORKS, All Rights Reserved