



Video and Intercom

Last updated 07/01/26 by CHTJ

Video Overview

The ADC Theatre operates a high-definition video system running at 1080p60. Primary distribution is via 3G SDI signals (SMPTE 424M @ 2.97 Gbps) on BNC-terminated 75 Ω coaxial cable. Other resolutions, frame rates and formats will most likely be incompatible, although the production switcher (mentioned below) does feature standards convertors on all inputs which may be used at the cost of additional video latency.

There are fixed show relay and IR cameras on the rear of auditorium bar, which can both be viewed at the SM desk and on various screens around the building. An additional three cameras and numerous video monitors are also available.

The theatre has video tielines to the Perches (SR & SL), the Pit (x2), DSR (x2), MSR, Upstage, DSL (x2), Upstage Left (x2), the rear of auditorium bar and the Larkum Studio (x3). SDI video signals are fully patchable around the building using a microMUSA patch panel in the Patchbay.

To facilitate distribution, there are two patchable 8-way SDI splitters available for use by shows and a fixed Blackmagic Videohub which serves the fixed video tielines in the building. Various Blackmagic Design SDI/HDMI converters are available for use by shows.

Video Production

A Blackmagic Design ATEM 1 M/E Constellation HD 10-in 6-out video switcher and Web Presenter HD encoder are available in the Patchbay rack for connection to the rest of the building video infrastructure. These are both remotely controllable via the theatre's Ethernet and Wi-Fi show networking. Internet streaming to well-known online public video services is also possible with sufficient prior discussion and arrangement with the Technical Manager.

Projectors

A Panasonic PT-DZ870 projector is permanently rigged on the rear of auditorium bar with an SDI feed from the second monitor output of the Mac Mini in the control box. This feed can be previewed from a screen in the control box and the projector is fully network controllable from the Mac Mini. This projector may not be moved from its position.

The Theatre also has a Panasonic D6000 projector with a flying cradle for portable use in the grid above stage or on Bridge 1 above the auditorium. This is kept in a flight case in the Sound Extras Cupboard.

The following lenses are also available:

- Panasonic Standard Lens 1.8-2.5:1 Zoom Lens
- Panasonic DLE050 0.8:1
- Panasonic DLE250 2.4-3.7:1 Zoom Lens

All use of the portable projector or of alternative lenses is by prior discussion and arrangement with the Technical Manager.

Intercom (Cans)

The theatre has a standard Tecpro 2-wire intercom system with three distinct rings or intercom circuits. There is a power supply and bantam patch panel in the Patchbay with tielines to the locations listed below, some of which also have fixed outstations. The default arrangement of

the rings is given in brackets, though this may be overridden by patching. Certain locations have provision for both rings and feature two independent tielines and/or sockets. Rings A and B can be split or joined at the Stage Manager's desk as required.

The theatre owns a large number of beltpacks, single-muff boom mic headsets and dedicated yellow 3-pin XLR cable which may be found in a rack in the USL wing. Shows expecting to use a large number of packs or headsets are advised to speak to the Technical Manager in advanced to confirm the exact numbers that are fully working.

Cans tielines or outstations are located as follows:

- Bridge 1 (Ring A)
- Bridge 2 (Ring A)
- SR Followspot (Ring A & B)
- SL Followspot (Ring A & B)
- Lighting Control Box (Ring A & B with additional permanent outstation)
- Sound Control Box (Ring A with additional permanent outstation)
- Lighting Auditorium Plot Point (Ring A & B)
- Sound Auditorium Mix Position (Ring A)
- SM Desk (Ring A & B dual-channel master station)
- Pit (Ring A)
- DSR (Ring A)
- DSL (Ring A)
- MSR (Ring A)
- USL (Ring A)
- US (Ring A)
- DS Counterweights Fly Floor (Ring A)
- US Counterweights Fly Floor (Ring A)
- DS Hems Fly Floor (Ring A)
- US Hems Fly Floor (Ring A)
- SR FOH Corridor (Ring A)
- SL FOH Corridor (Ring A)
- DR1 (Ring A)
- DR2 (Ring A)
- Green Room (Ring A)
- DR Stairs (Ring A)
- Scene Dock (Ring A with additional permanent outstation)
- Clubroom (Ring A)
- Tech Office (Ring A)
- Box Office (Ring A)
- Bar (Ring A)
- Prod Office (Ring A)
- Larkum Studio 1 (Ring C)
- Larkum Studio 2 (Ring C)
- Patchbay (Ring A & B dual-channel permanent outstation)
- SR Juliette (Ring B)
- SL Juliette (Ring B)
- Auditorium Floor Boxes (Ring B)
- Wireless Cans Base Station (Ring A)