

Colourimetry for Film & TV

- Extensive experience calibrating broadcast monitors and projectors for diverse applications.
- Equipped and experienced in profiling and building LUTs for accurate picture reference, particularly with domestic displays.
- Equally at home in Rec.709 environments as well as Rec.2020/P3/HDR for both film, VOD and TV.
- Matching on-set monitors to studio lights and cameras.

System Design

- Designed, supervised the install and handed over hundreds of systems both large (sometimes >50 equipment bays) and small (two Avids in the rear of the production office),
- At home in post, studios, OBs and Data Centres – both UK & abroad (Africa, Middle East etc)
- Entirely able to manage the technical paperwork (diagrams, schedules) as well as project documentation (RAMS, Scope of Works, etc) and budget tracking and the purchase order/invoicing process.
- Good relationship with wiring technicians & engineers as well as parts suppliers, able to supervise/test the build process.

Electrical Safety & optimal arrangements for media facilities

- Abreast of legislation (currently at IET 18th Ed. - done the update training)
- Skilled in designing/testing earthing systems to avoid induced hum problems in facilities
- An ideal engineering interface between electrical contractors and the needs of a modern media facility; Online/offline-interactive UPS etc.

Test and Measurement

- Many years of experience (and hundreds of hours of production) QC'ed for UK terrestrial broadcast
- Audio (R.128) and Video (R.103, PSE etc) along with AQC for DPP (building VidChecker profiles etc)

Industry Relationships

- Presenting; have demo'ed and presented at numerous trade shows (IBC, BVE etc) as well as conferences (HPA-UK, Dolby etc) - able to represent your product/organisation.
- Able to design and manage proof of concept (POC) studies with resellers and manufacturers.
- An excellent interface between facilities and resellers, friendly with other expert freelancers.

Fault Finding

- Electronic maintenance to component level, instructing engineers in best workshop practise.
- System problem solving and optimising.

Training - Have written and run the following courses *(all can be customised to clients' needs)*

- IP Networks 101 for broadcast engineers
- Fibre optics; introduction for broadcast engineers
- Video 101
- Audio 101
- TV QC 101
- Electrical Safety for film & TV engineers
- Colourimetry for film & TV
- Fundamentals of video compression and file formats
- Introduction to cryptography and encryption

Fibre Optics infrastructure and multiplexing

- Design, test and fault find both campus networks as well as metro links
- Experienced in multiplex design and test; CWDM and DWDM
- Train wiring technicians in the use of fusion splicers and other optimal methods.

Current product expertise

- **Eizo** and **Sony** Broadcast monitors
- **Leader** and **Tektronix** test and measurement; particularly UHD/4K/HDR for Dolby/Netflix etc.
- **Barnfind** – fibre optic switching, extending, format conversion & multiplexing; campus and metro n/w
- **Amulet Hotkey** – Teradici KVM-over-IP; nearly 2,000 seats deployed in production/post/audio etc.