Lighting systems specifications - Eurovision Song Contest 2021

Showlights:	Keylights:
481 x Clay Paky XTYLOS	14 x Robe Motion-Cam
40 x GLP JDC1	12 x Robe BFML Followspot LT
220 x Robe LEDBeam 150	20 x Robe BMFL WashBeam
396 x Robe Spiider	7 x Litra Studio
140 x Ayrton Mini-Panel FX	19 x Ayrton Huracán – X
100 x GLP Impression FR-10 bar	47 x Robe BMFL WashBeam (greenroom)
35 x Robe Tetra 2	45 x Robe BFML WashBeam (audience)
161 x Ayrton Huracán – X	
64 x Ayrton Karif – LT	
10 x Astera AX-2 bar	
4 x MDG ATMe	
2 x MDG M3e	
4 x LOOK Viper NT	
10 x Martin AF-1 MK2	

General system information:

All lighting control is done by GrandMA3 - desks: 10 on FOH and 2 on the floor for focusing. 3 Sessions on 1 network.

Session 1: Main - Show lights, 15 PU's
Session 2: LED lines (thru Green Hippo +/- 700 univ), Augmented Reality, Crowdled, Delegation specials, Smoke and the GLP FR10 Bar next to the cameratrack, 15 PU's
Session 3: Key-lights, Robospot/Follow-Me en camera-lights, 2 PU's

The virtual lights in the Augmented Reality are controlled by serveral Art-Net universes. There is also a connection with the Diguise media servers to control the intensity of the LED screens and even use the lights around the LED screens as an Ambilight–effect. To be completely in control, the AHOY houselights is are connected to the light system. Monitoring of the universes and fixtures is done by dmXLAN, Networkmonitoring via PRTG.
All fixtures are addressed via RDM and tested with the FixtureTester App on a mobile device.

Network:

Approximately 7000m of fiber cable is used to transport all 305 sACN and 37 Art-Net universes around the venue, in full redundant mode with a 10Gbps backbone. The fiber network connects to 10 main dimcities, located all around the venue. In total, these dimcities hold 65 ELC nodes for DMX outputs and 32 switches for data distribution.

Follow-me/Robospot:

14 **RoboSpot** controllers in multi-device mode, 12 of them controlling a BMFL WashBeam, a BMFL Followspot LT and a Motion-cam, the other two feature the BMFL Followspot and a motion cam.
Controlled by the GrandMA3 in session 3 through Art-Net and all connected in a redundant network for the 26 camera's and the DMX-RDM data.

The **Follow-Me** system has 64 fixtures calibrated: 58 Ayrton Huracan-X and 6 Robe BMFL WashBeams.
Since 40 of these Ayrton Huracán-X's are mounted to droparms, their position varies. PosiStageNet communicates these positions and Follow Me corrects the positions accordingly.
3 Targets are available, with the MA3 desk controlling which fixture should be aimed at which target.

Labels:

For labeling we used an application called PatchPrinter, which can extract information directly from SCAD and print labels for racks, dim(mains)cities, fixtures, cables and network-items. All other data and information is shared among crew via cloud based communication channels.

More info on http://wwww.ampco-flashlight.com/esc