OBX UHD-HDR Triple Expand

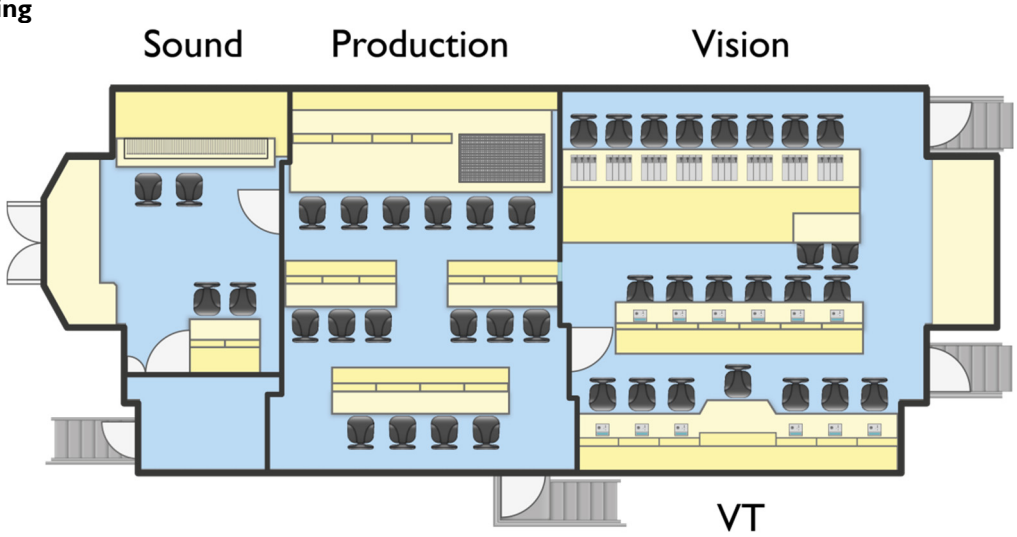
Unit Summary

Arena pioneered the World's first full-scale implementation of data over IP in an outside broadcast truck. The aim being to provide a fully glass-to-glass IP workflow. Hundreds of OBs later it has proven a solid decision.

Why is IP important? Traditional baseband technology is effectively point-to-point using copper cable. This legacy technology requires 4 paths to move a UHD signal (routed as 4x quad-HD tiles). In an environment where space and weight are at a premium, this limits the power of the OB unit. It also means key equipment like Routers and Vision mixers have 4 inputs and outputs in use for a every signal path.

IP allows the Production team to produce UHD content of the same scale and complexity previously used for HD and then some with the option of HDR PQ (ST2084) and HLG (hybrid log gamma). The OB unit can multi-cast in SD, HD (1080 50i), HD (1080 50P) and UHD. UHD content can be produced in High Dynamic Range (HDR) whilst producing legacy feeds in Standard Dynamic Range (SDR). Our IP truck design is now well proven working regularly on numerous high-profile events.

Layout Drawing



Technical Specifications

Sound	Production	Vision / VT
Calrec Apollo 64 motorised fader audio mixing desk • Hyrda-2 • Bluefin-2 • TR03/04 • Auxes & 8 groups	• Spacious 240sq ft production gallery • Multiviewer driven monitoring • UHD PV & TX • Touch pad system to allow self-programming of monitor stack. • 3 Tiers of production desks • Seating for up to 16 people	• Grass Valley 4ME K-Frame Kayenne vision mixer • GV Kaleido KMX multiviewers • GV Densité infrastructure • GV Node IP Processing • EVS and Sony Servers • 32 on-board camera channels • Cisco 40GbE IP switch • TICO 10Gbe and UHD 2Si

Chassis :	17.5m long articulated vehicle. Triple full-length expanding sides. Self-levelling system. Air-conditioning and roof platform
Weight:	34 tonnes
Power requirements:	3 x 125amp single phase c-form

Unit Images

ARENA
DAF
LJ14 HZE
ULTRA HD
High Dynamic Range
ARENA
arena-tv.com

Monitor Stack

59	60	61	62	63	64	65	66	67	68	69	70	71	72
44	45	46	47	48	49	50	51	52	53	54	56	57	58
36	37	38	39	PVW		TX		PVW		40	41	42	43
28	29	30	31							32	33	34	35
14	15	16	17	18	19	20	21	22	23	24	25	26	27
1	2	3	4	5	6	7	8	9	10	11	12	13	14