OB UNIT — TECHNICAL SPECIFICATION

Outside Broadcast Van · Compact HD/4K Production System

Basketball · Football · Futsal · Handball · Volleyball · Water Polo · Wrestling · Figure Skating · Taekwondo · Boxing · Rugby 7 · 3×3 Basketball · Para Boccia · Athletics · Swimming · Socca · Concerts & Live Events



RENAULT MASTER H2L3 · COMPACT OB UNIT

VEHICLE Renault Master H2L3	FORMAT HD / 50 P/I
DIMENSIONS (CARGO) L: 3,66m · W: 1,74m · H: 1,95m	TOTAL WEIGHT 3,500 kg
POWER INPUT 230V / 32A CEE32 or 16A Schuko · 3-phase 380V available	WORKSTATIONS 4 operator positions
CAMERA CAPACITY Up to 12 cameras	LOCATION Zagreb, Croatia · EU

PRODUCTION CAPABILITIES

LIVE SWITCHING • SLOW MOTION REPLAY • LIVE GRAPHICS & STATS • SRT / IP STREAMING
LIVE-U 5G • 5G BONDING • MULI SPORT • COMMENTARY

CAMERAS & OPTICS

BROADCAST CAMERAS

- 6× **Sony PXW-Z200** 1" Exmor RS · 4K60p · 20× zoom · 12G-SDI · genlock/TC
- 6× **Sachtler System aktiv8T flowtech75 GS** Fluid head tripod
- 6× **FeelWorld FW279S 7"** 4K HDMI/SDI on-camera monitor
- 4× **FeelWorld 4K camera assist monitor** Focus assist

WIRELESS VIDEO

- 2× **Hollyland C1** Wireless camera video link
- 1× **DJI Transmission Combo** Wireless camera video link

ROBOTIC / PTZ

- 4× **Zowietek AI HD PTZ** 30× · NDI · AI auto-tracking · PoE
- 2× **PTZ Optics 30× NDI** 30× · NDI/SDI · PoE
- 1× **Zowietek joystick + touchscreen controller**
- 1× **Secondary PTZ joystick** Backup PTZ control

SPECIALIST CAMERAS

- 3× **GoPro Action 4K** Net / rail / special positions
- 4× **Lipstick cameras SDI** Net / special positions
- 1× **DNC-HD5 Underwater** 3G-SDI · up to 30m cable · water polo

VIDEO PRODUCTION

SWITCHING & PRODUCTION

- 1× **Blackmagic ATEM Constellation 4M/E HD** 40in / 28out · colour correction · talkback
- 1× **Blackmagic ATEM Talkback Converter 4K** Talkback int.
- 6× **Blackmagic ATEM Camera Converter** SDI/fiber per cam.
- 2× **vMix Pro – Master Licence (4 workstations)** GFX · replay · SRT · playout · backup switching
- 1× **vMix Replay hardware controller** Replay system control

ROUTING & PROCESSING

- 1× **Blackmagic Compact Videohub 40×40 12G** Full SDI routing matrix
- 2× **Decimator DD-12G-CROSS** Cross / down / frame-rate conversion

RECORDING

- 4× **Blackmagic HyperDeck Studio HD Plus** ISO recording
- 1× **Blackmagic Cloud Store (10GbE NVMe RAID)** Local storage + cloud sync
- 1× **REPLAY workstation + 2x Blackmagic DeckLink Duo** vMix instant replay — up to 8 cameras

MONITORING (IN VAN)

- 2× **TCL 43" QLED** Multiview / program output
- 8× **AOC 21" monitors** Operator stations
- 2× **Seetec P215-9HSD-CO SDI broadcast monitor**
- 3× **FeelWorld Dual 7" Rack Mount** Rack input monitoring

AUDIO & INTERCOM

MAIN AUDIO CONSOLE

- 1× **Allen & Heath SQ Rack** 48-channel · dSnake · rack-mount console
- 1× **Allen & Heath DX168 remote expander** Remote audio expander
- 1× **Focusrite Scarlett USB audio interface** USB audio

MICROPHONES

- 1× **Sennheiser EW-DP ENG SET (R4-9)** Wireless mic for interviews

MONITORING

- 2× **Genelec reference monitors** Near-field studio monitoring

COMMENTARY & INTERCOM

- 1× **Glensound Express Box MkII** double commentary positions
- 2× **Sennheiser HMD 27 broadcast headset** 2 pairs
- 1× **Nayatec BS450-E wireless intercom** 8 wireless + 1 wired beltpack

FIBER INFRASTRUCTURE

- 6× **HD-LINK Fiber Optic Transmission System (rack)**
- 20× **FieldCast 3G SFP Optical Transceiver** SDI over fiber — camera links
- 10× **OPTIC LAN converter (rack)** LAN extension over fiber
- 10× **Fiber kit (2/4/8/12-core + SDI/HDMI/XLR/LAN)** Field fiber infrastructure

TRANSMISSION & POWER

TRANSMISSION — PRIMARY

- 1× **LiveU LU300S 5G** Bonded cellular · HEVC/H.264 · primary IP uplink
- 1× **Cinema Bonding System** Raspberry Pi 5 · 3×5G modems · Speedify · backup WAN
- 1× **Starlink Roam** Satellite WAN — 3rd backup link

NETWORK

- 1× **2.5G Switch (16×2.5G + 2×10G SFP+)** Production local network

OUTPUT FORMATS

1080i · 1080p 25/50

SDI · NDI · SRT · RTMP · HLS · RTSP

POWER

- 1× **UPS Eaton 5SC3000** Primary UPS — no-break power
- 1× **APC SMT750RMI2UC** Secondary UPS
- — **Professional generator** Full system backup — mobile deploy
- — **V-Lock 195Wh + D-Tap distributors** Camera / wireless / field power

VAN AMENITIES

Professional roof-mounted air conditioning

Electric awning for outdoor operation

ABOUT CINEMA PRODUKCIJA

Cinema Produkcija d.o.o. is a **Zagreb-based** independent broadcast production company with over 25 years of combined industry experience. We specialise in live sports production for European and global broadcast clients — including **Eurosport, DAZN, Arena Sport and Sport Klub** — delivering approximately 100 productions per year across football, basketball, handball, volleyball, wrestling, taekwondo and more.

Our compact **OB unit** is fully integrated and road-ready at all times. Every deployment runs on identical configuration — same workflow, same signal chain, same result. All equipment is permanently installed, calibrated and operationally tested between productions, so there are no surprises on match day.

We operate as a flexible host broadcaster or remote production partner across Southeast Europe and beyond. Our proprietary Cinema Bonding system aggregates multiple independent **5G connections** alongside our **LiveU LU300S** encoder to deliver broadcast-grade IP transmission — reliable, redundant and completely independent of venue infrastructure.











REDUNDANCY & BACKUP SYSTEMS

RISK ELEMENT	BACKUP SOLUTION	RECOVERY
Camera failure	Backup PTZ on all key positions	< 2 min
ATEM switcher failure	vMix hot backup switcher	< 30 sec
Production PC failure	Identical spare PC in van	< 3 min
Internet / 5G failure	Cinema Bonding auto-failover (3×5G + Starlink)	0 sec
Encoder failure	Redundant SRT + LiveU LU300S backup	< 30 sec
Power failure	Eaton 5SC3000 + APC UPS — no-break	0 sec

DELIVERABLES & OUTPUT FORMATS

- **Programme Feed (Dirty)**
  Full graphics, commentary, score overlay — broadcast ready
- **Clean Feed**
  No graphics/commentary — post-production & redistribution
- **ISO Camera Recordings**
  Each camera recorded individually — HyperDeck ISO
- **Slow-Motion Highlights**
  Per match/set reel — delivered same day, social media ready
- **SRT Live Feed**
  Low-latency encrypted stream for broadcasters
- **Stats & Data Overlay**
  Real-time — football, basketball, volleyball, handball, taekwondo, water polo, figure skating

PRODUCTION PACKAGES

STANDARD — UP TO 6 CAMERAS

6× Sony Z200 · ATEM switching · Full audio · Commentary · SRT streaming · vMix replay · Live graphics

EXTENDED — UP TO 12 CAMERAS

6× broadcast + 6× PTZ/lipstick/GoPro · Full EVS or HyperDeck ISO · Statistics integration · Satellite TX



PRODUCTION REFERENCES

INTERNATIONAL FOOTBALL (2024–2025)

Aug 2025 — **FC Vaduz 0–1 AZ Alkmaar** Rheinpark Stadion, Vaduz (LIE) ***UEFA Conference League · VAR integration***
Jul 2025 - **Kaiserslautern 0–1 AS Roma** *Fritz-Walter-Stadion, Kaiserslautern* ***(GER)***
Aug 2025 — **Frosinone Calcio** *pre-season Stadio Benito Stirpe, Frosinone* ***(ITA)***
Jan 2025 — **VfB Stuttgart 2–2 AFC Ajax** *Robert-Schlienz-Stadion, Stuttgart* ***(GER)***
Jul 2025 — **Hansa Rostock** *pre-season DKB Arena, Rostock* ***(GER)***
Jul 2024 — **Hansa Rostock** *pre-season DKB Arena, Rostock* ***(GER)***
Aug 2024 — **TSG Hoffenheim 0–2 Fulham FC** *PreZero Arena, Sinsheim (GER)*
Jul 2024 — **VfB Stuttgart 3–0 Fortuna Sittard** *Frankenstadion, Heilbronn* ***(GER)***

UWW WRESTLING & MAJOR EVENTS

Feb 2026 — **UWW Zagreb Open** (2 mats simultaneous) *Arena Zagreb, Croatia* UWW+ · FloWrestling (USA) · VK Sport
Feb 2025 — **UWW Zagreb Open** Arena Zagreb, Croatia UWW+ · FloWrestling (USA)
Feb 2024 — **UWW Zagreb Open** *Arena Zagreb, Croatia* UWW+ · FloWrestling (USA)
Jul 2025 — **Para Boccia World Europe Championships** *Arena Zagreb, Croatia* Host broadcast
Nov–Dec 2025 — **Thompson tour (15 concerts)** *Osijek / Varazdin / Zadar / Split / Porec* Production for Ivas Grupa
Nov 2025 — **Parni Valjak, Arena Zagreb** *Arena Zagreb, Croatia* Production for Ivas Grupa
Nov 2025 — **Severina, Arena Zagreb** *Arena Zagreb, Croatia* Production for Ivas Grupa
Dec 2025 — **Strauss Christmas Gala** *Arena Zagreb, Croatia* Production for organiser

SOCCA INTERNATIONAL (2022–2025)

Sep 2022 — **Socca World Cup** *Budapest, Hungary* ISF international broadcast
Jun 2023 — **Socca World Cup** *Essen, Germany* 70+ TV channels worldwide
Oct 2023 — **Socca Champions League** *Maribor, Slovenia* ISF broadcast
May 2024 — **Socca EuroCup** *Chisinau, Moldova* ISF broadcast
Oct 2024 — **Socca Champions League** *Crete, Greece* ISF broadcast
Dec 2024 — **Socca World Cup** *Muscat, Oman* Oman Sport TV · Dubai Sport TV · Al Iraqiya
Jun 2025 — **Socca EuroCup** *Chisinau, Moldova* ISF broadcast
Oct 2025 — **Socca Champions League** (6 pitches) *Crete, Greece* ISF broadcast — 6 pitches simultaneous

DOMESTIC — CROATIA

2024–2026 — **HNL / Croatian Football League** *Various venues, Croatia* Arena Sport · Sport Klub — ongoing
2024–2026 — **Basketball SuperSport Premijer liga** *Various venues, Croatia* MaxSport/HT · Arena Sport
2024–2026 — **Handball EHF / HRS Premijer liga** *Various venues, Croatia* Sportska TV (SPTV) / MaxSport/HT
2024–2026 — **Volleyball CEV / MEVZA / Superliga** *Various venues, Croatia* Sportska TV (SPTV) / MaxSport/HT
2024–2026 — **Water polo LEN / HVS play-off** *Various venues, Croatia* Sportska TV (SPTV) / MaxSport/HT
2024–2026 — **Taekwondo · Boxing · Figure Skating** *Various venues, Croatia* Sportska TV (SPTV) / MaxSport/HT
≈100 productions per year *Croatia & international* MaxSport/HT · SPTV · Arena Sport · Sport Klub · SportKlub Fight

CONTACT

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MAIN VIDEO & AUDIO SIGNAL PATH

CAMERAS
6× Sony PXW-Z200
12G-SDI out · 4K60p · genlock/TC
+ 6× PTZ Zowietek / PTZ Optics
+ Lipstick · GoPro · Underwater
Up to 12 cameras

→ 12G-SDI / FIBER

ROUTING MATRIX
Videohub 40×40
40 inputs · 40 outputs
12G-SDI · Full routing
control via Ethernet
Blackmagic Design

→ SDI

LIVE SWITCHER
ATEM Constellation HD
4 M/E · 40 in / 28 out
Colour correction · USK/DSK
Hardware panel · talkback
Primary switcher

→ PGM SDI BACKUP

LIVE PRODUCTION SOFTWARE
vMix Pro
GFX · Replay · SRT · Streaming
Hot backup swit hing · playout
Stats overlay · scorebug
Backup switcher

REPLAY
Replay Workstation
DeckLink Duo · up to 8 cam
Instant replay · slow-mo

→ SDI PGM SRT/IP

RECORDING
2× HyperDeck Studio HD+
H.265 · ProRes · ISO rec
Cloud Store 8TB NAS
PGM + ISO

TRANSMISSION
LiveU LU300S 5G
Bonded · HEVC · SRT
Cinema Bonding backup
Starlink 3rd link

AUDIO & COMMUNICATIONS PATH

MICROPHONES
Field Audio
Sennheiser EW-DP ENG
Wired mics · commentary

→ ANALOG / AES

MAIN AUDIO CONSOLE
Allen & Heath SQ Rack
48 channels · dSnake · MADI out
DX168 remote stagebox · AB168-RK
Genelec monitoring
Primary audio

→ AES / MADI

AUDIO EMBED
ATEM Audio Embed
16ch embedded audio
into SDI program signal

→ SDI + AUDIO

INTERCOM
Blackmagic / Nayatec
6× smart panels
Nayatec BS450-E wireless
8 beltpack positions

→ CLEAN FEED

COMMENTARY
Glensound Express MkII
2 positions
Sennheiser HMD 27

OUTPUTS & DELIVERABLES

Programme Feed (Dirty)
Full graphics · commentary · score · SDI out

Clean Feed
No graphics · no commentary · redistribution

ISO Camera Recording
Each camera · HyperDeck · Cloud Store 8TB

SRT / IP Stream
LiveU LU300S · Cinema Bonding · Starlink backup

Slow-Motion Highlights
vMix replay · per match reel · social media

Stats & Graphics Feed
FastAPI engine · vMix GT · live data overlay






Croatia
Croatia
Antonija
KNEZOVIĆ
RAZBIJAČICA








VS
THE SAP BTP EXPERTS









