ISSF REQUIREMENTS

TV PRODUCTION AND INTERNET STREAMING

TECHNICAL REQUIREMENTS

TV LEVEL 1 – CAMERAS PLAN AND EQUIPMENT REQUIREMENTS

RIFLE / PISTOL (12 cameras)

1 OB-Van 1080i 50
2 Power generators (main and back-up) for the OB-van
Video Switcher
Audio Mixer

OB-van cameras:
  #5 - SSM, x80, on tripod
  #8 - SSM, x14, ENG
  #9 - ENG camera on RF channel with x14 lens with 1-way IFB
  #10 - x22 on tripod
  #11 – crane camera x14
4 mini cameras:
  #1, 2, 3, 4 - x22 or similar, with zoom, with robotic heads, on the floor
2 SSM cameras (75-150 fps)
  #6 and #7 - SSM (75-150 fps), x40 lens, on robotic heads, raised from the floor by 120 centimeters
1 crane
  #11 - crane (6 meters) with OB-van camera, wish zoom, with tilt/pan
All cameras to have Tally and talk-back
3 EVS (3 x 6-2 all in network) with X-files

Audio:
International sound microphones and stands
Radio transmitters/receivers, radio sets, alkaline batteries
Digital recorder/playback
Commentator unit with 2 headsets - 1 pcs
External intercom – 2 pcs

Monitors:
7 monitors 1920x1080 30 inches +

Internet streaming:
PGM with International sound + commentary (MIX)
Streaming to LiveStream + Youtube + Facebook

Graphics:
Graphics to be applied by ISSF partners in the OB-van and on the final range
  Provide Key+Fill+Reference, Ethernet cable for data connection, LAN cables

Others:
HDD recorder
USB recorder (<10 mbit)
Yellow Jackets
Walkie Talkie
Engineering Staff
SNG
SHOTGUN (10 cameras)

1 OB-Van 1080i 50
1 SNG
2 Power generators (main and back-up) for the OB-van

VideoSwitcher
Audio Mixer

OB-Van cameras:
   #1 - x80 SSM (75fps) on tripod (with wheels)
   #2 - x22 on tripod
   #3 - x80 SSM (75fps) on tripod
   #4 - x40 on tripod (with wheels)
   #5 - x80 SSM (75fps) on tripod (with wheels)
   #6 - x14ENG
   #7 - x14ENG
   #8 - x14 on RF Steadicam
   #9 - x14 on a Crane
   #10 - QuadCopter streaming 1080i LIVE (Phantom Inspire or better. Phantom 4 not acceptable)

1 Crane 6 meters with robotics head (including dolly operator)
1 Steadicam on RF channel with IFB for cameraman
All cameras to have Tally and talk-back
3 EVS (3 x 6-2 all in network) with X-files

Audio:
International sound microphones and stands
Radio transmitters/receivers, radio sets, alkaline batteries
Digital recorder/playback
Commentator unit with 2 headsets - 1 pcs
External intercom – 2pcs

Monitors:
7 monitors 1920x1080 30 inches +

Internet streaming:
PGM with International sound + commentary (MIX)
Streaming to LiveStream + Youtube + Facebook

Graphics:
Graphics to be applied by ISSF partners in the OB-van and on the final range
   Provide Key+Fill+Reference, Ethernet cable for data connection, LAN cables

Others:
HDD recorder
USB recorder (<10 mbit)
Yellow Jackets
Walkie Talkie
Engineering Staff
SNG
TV LEVEL 2 – CAMERA PLAN AND EQUIPMENT REQUIREMENTS

RIFLE / PISTOL (9 cameras)

1 OB-Van 1080i 50
2 Power generators (main and back-up) for the OB-van
Video Switcher
Audio Mixer

OB-van cameras:
    #5 - x80, SSM, on tripod
    #6 - x14, ENG
    #7 - x22, ontripod
    #8 - x14, crane camera
    #9 - x14, ontripod

4 Mini cameras:
    #1, 2, 3, 4 - x22 or similar, with zoom, with robotic heads, on the floor
1 crane
    #8 - crane (6 meters) with OB-van camera, wish zoom, with tilt/pan

All cameras to have Tally and talk-back
2 EVS (2 x 6-2 all in network) with X-files

Audio:
International sound microphones and stands
Radio transmitters/receivers, radio sets, alkaline batteries
Digital recorder/playback
Commentator unit with 2 headsets - 1 pcs
External intercom – 2 pcs

Monitors:
7 monitors 1920x1080 30 inches +

Internet streaming:
PGM with International sound + commentary (MIX)
Streaming to LiveStream + Youtube + Facebook

Graphics:
Graphics to be applied by ISSF partners in the OB-van and on the final range
    Provide Key+Fill+Reference, Ethernet cable for data connection, LAN cables

Others:
HDD recorder
USB recorder (<10 mbit)
Yellow Jackets
Walkie Talkie
Engineering Staff
SNG
SHOTGUN (8 cameras)

1 OB-Van 1080i 50
1 SNG
2 Power generators (main and back-up) for the OB-van
VideoSwitcher
Audio Mixer

OB-Van cameras:
   #1 - x80 SSM (75fps) on tripod (with wheels)
   #2 - x22 on tripod
   #3 - x80 SSM (75fps) on tripod
   #4 - x40 on tripod (with wheels)
   #5 - x80 SSM (75fps) on tripod (with wheels)
   #6 - x14 ENG
   #7 - x14 on RF Steadicam
   #8 - x14 on a Crane
1 Crane 6 meters with robotics head (including dolly operator)
1 Steadicam on RF channel with IFB for cameraman
All cameras to have Tally and talk-back
3 EVS (3 x 6-2 all in network) with X-files

Audio:
International sound microphones and stands
Radio transmitters/receivers, radio sets, alkaline batteries
Digital recorder/playback
Commentator unit with 2 headsets - 1 pcs
External intercom – 2pcs

Monitors:
7 monitors 1920x1080 30 inches +

Internet streaming:
PGM with International sound + commentary (MIX)
Streaming to LiveStream + Youtube + Facebook

Graphics:
Graphics to be applied by ISSF partners in the OB-van and on the final range
   Provide Key+Fill+Reference, Ethernet cable for data connection, LAN cables

Others:
HDD recorder
USB recorder (<10 mbit)
Yellow Jackets
Walkie Talkie
Engineering Staff
SNG
**TV LEVEL 3 – CAMERA PLAN AND EQUIPMENT REQUIREMENTS**

**RIFLE / PISTOL (6 cameras)**

1 OB-Van 1080i 50
2 Power generators (main and back-up) for the OB-van
Video Switcher
Audio Mixer

OB-van cameras:
- #3 - x80, SSM, on tripod
- #4 - x14, ENG
- #5 - x22, on tripod
- #6 - x14, on tripod

2 mini cameras:
- #1, 2 - x22 or similar, with zoom, with robotic heads, on the floor
All cameras to have Tally and talk-back
1 EVS (6-2) with X-files

**Audio:**
International sound microphones and stands
Radio transmitters/receivers, radio sets, alkaline batteries
Digital recorder/playback
Commentator unit with 2 headsets - 1 pcs
External intercom – 2 pcs

**Monitors:**
7 monitors 1920x1080 30 inches +

**Internet streaming:**
PGM with International sound + commentary (MIX)
Streaming to LiveStream + Youtube + Facebook

**Graphics:**
Graphics to be applied by ISSF partners in the OB-van and on the final range
Provide Key+Fill+Reference, Ethernet cable for data connection, LAN cables

**Others:**
HDD recorder
USB recorder (<10 mbit)
Yellow Jackets
Walkie Talkie
Engineering Staff
SHOTGUN (5 cameras)

1 OB-Van 1080i 50
2 Power generators (main and back-up) for the OB-van
Video Switcher
Audio Mixer

OB-Van cameras:
   #1 – x42 on tripod (with wheels)
   #2 – x14 on tripod
   #3 – x42 SSM (75fps) on tripod
   #4 – x22 on tripod (with wheels)
   #5 - x14 ENG
All cameras to have Tally and talk-back
1 EVS (6-2) with X-files

Audio:
International sound microphones and stands
Radio transmitters/receivers, radio sets, alkaline batteries
Digital recorder/playback
Commentator unit with 2 headsets - 1 pcs
External intercom – 2 pcs

Monitors:
7 monitors 1920x1080 30 inches +

Internet streaming:
PGM with International sound + commentary (MIX)
Streaming to LiveStream + Youtube + Facebook

Graphics:
Graphics to be applied by ISSF partners in the OB-van and on the final range
   Provide Key+Fill+Reference, Ethernet cable for data connection, LAN cables

Others:
HDD recorder
USB recorder (<10 mbit)
Yellow Jackets
Walkie Talkie
Engineering Staff