

Barcelona World Race 2010/2011

Rider n°7 to the Notice of Race

11th October 2010

This amendment modifies articles of the Notice of Race published on 23rd February 2010.

This Technical Video Appendix completes the Article 14.2 of the Notice of Race.

In case of conflict, this Technical Video Appendix will prevail.

INTRODUCTION

The Fundació per la Navegació Oceànica de Barcelona (FNOB), organizers of the Barcelona World Race, employ their best efforts to ensure that the race becomes a reference event offering participants and their sponsors the maximum exposure possible and return on their investment.

For this purpose it is essential to receive multimedia material on an agreed regular basis, to enable the organization to produce quality content that will be made available to sponsors, media and to the public in general.

It is therefore of the utmost importance to receive the multimedia material produced onboard. For this purpose the FNOB has set up an optimized system to receive of video/audio/images/data/calls, as well as enabling a 24-hour follow up of the participating boats.

This optimized system, including software and protocols, will be used during the second edition of the Barcelona World Race.

The FNOB, aware of the economical effort necessary to equip all boats with new multimedia systems, approves of the majority of existing onboard camera systems but requires that a compatible connection with the organization is effected and the number of cameras to be carried onboard is established and accepted.

TECHNICAL REQUIREMENTS:

CAMERA SYSTEMS:

System formed by a set of wired cameras connected to a switch enabling the selection of the camera and audio source during a live connection or a recording. Cameras HD 16:9 and SD 4:3 / 16:9 are compatible, although SD 16:9 is preferred.

System description:

- 1 wired cameras on deck (2 recommended)
- 1 camera nautical chart table
- Outdoors/Weatherproof microphone
- 1 system of wireless headphones /microphone enabling talking from the deck
- Memory card or tape recording system.
Note: the chosen medium should be fit to be inserted in a container or watertight bag to be retrieved by the organization at the appointed delivery points.
- Switch for the selection of audio / video sources with FIREWIRE port (for video) and LINE OUT (for audio)
- Portable HD camera

System formed by a minimum of 2 cameras:

- 1 wired camera on the nautical chart table, connected to the switch
- 1 wired cameras on deck, connected to the switch (2 recommended)

The cameras fitted on deck can be placed to the participant's convenience.

The camera system must be connected to a switch type system (hardware or software) that enables the commutation between any of the cameras during the recording/video conference/live video. This computer must have a FIREWIRE port connection (for video) and LINE OUT (for audio) to use the homologated videoconference system 'SPONTANIA' (see the videoconference section)

The video camera formats accepted are:

- SD 16:9
- SD 4.3
- HD 16:9

Additionally, boats must carry onboard a portable waterproof HD camera for filming purposes.

IMAGES AND VIDEO TRANSMISSION SYSTEM

Systems FTP, Livewire and Clipway are compatible for the transmission of images and videos to the organization. (Livewire or FTP recommended).

Videos in HD and SD format are accepted as long as they are codified in H264 or Clipway. (Livewire or FTP recommended)

In case of using the Clipway system the organization can not be sure of the final quality of the videos and the time required for publication.

Photos will always be sent in HD format; the technical requirements for photo transmission will be detailed in a separate 'PHOTO' Appendix.

VIDEO CONFERENCE SYSTEM

The Barcelona World Race will have an innovative video conference system that will enable multipoint video calls.

The system chosen for this purpose, SPONTANIA, will be available cost-free for all participants.

The SPONTANIA system is not a software programme. It is a light plug-in less than 2MB. Once installed in compatible computers, it enables the participating boat to communicate in real time via a monitored video call (24-hour service), to guarantee the best quality call possible - as long as there is satellite coverage -, adjusting the video and audio quality in real time.

The chosen system has some advantages worth highlighting:

- Multipoint system (example : boat + sponsor + TV broadcaster at the same time)
- Recording of video calls and their posting on the organization webpage.
- Online posting on internet through streaming on the organization webpage and on TV.
- Connection with the Teknon Medical Centre team
- Connection with the organization
- Connection with TV Broadcasters (Optional)

This system does not prevent participants from using other software for external communications (TV broadcasters, sponsors); nevertheless it is the only system fully compatible with the Barcelona World Race as well as its medical service, and its installation is mandatory.

In the case of a demonstrated failure with Spontania Videoconference on board the Barcelona World Race Conference Room will receive videoconference calls with Clipway or Livewire as a backup solution. These systems will not work with Pc-course and Teknon

In order to use the Spontania system, the organisation will offer participants two possible options:

OPTION 1 : BLACK BOX

In this option a small 'black box' is fitted on board the boat.

The black box will be of reduced size and consumption and will have the following connection ports:

- DC connection
- Ethernet 10/100 connection
- Firewire connection
- VGA connection
- Audio Output
- Audio Input (MICROPHONE)

The Firewire connection, through its connection to the switch of the onboard cameras, enables the transmission of images.

The ethernet connection enables connecting to the satellite communication system.

The supply of the black box will be free of cost for participants. Depending on each boat's configuration it may be necessary for the teams to install a KVM in order to use the keyboard, mouse and today's screens.

The Technology department of the race organizers will be happy to assist all participants and offer help and advice in choosing appropriate system.

OPTION 2: COMPATIBLE COMPUTER

Scenario in which the organisers supply a software solution instead of a hardware one, establishing computer requirements:

Limitations:

- The boat must have a minimum of 2 computers for different uses (navigation / multimedia) "Spontania" system cannot be installed in the navigation computer; it must be installed in a computer used exclusively for multimedia tasks, although it is understood this could be a spare computer in case of break down.
- The computer will have windows XP / Vista / Windows 7
- The computer must be connected to the boat camera system
- The computer must be connected to the boat's satellite connection
- The processor must be ATOM or superior with a minimum 1 GIGA RAM memory reserved for "Spontania" system.

The installation of the Spontania software must be:

- made by the boat's technician
- validated by the organisation (see INSTALLATION AND VALIDATION DEADLINES section)
- reviewed again before the start from Barcelona

Participants must choose one of these two options before 20th October 2010.

In case of a demonstrate irreparable failure of the approved solution for the Spontania videoconference on board and as a backup solution, the organization allows the possibility of being compatible in the Barcelona World Race conference room to receive videoconference calls with Clipway and Livewire. It will only be used in case of contingency and there won't be any video option available through these systems or with the PC course and Teknon. Being mandatory and essential to install and use Spontania to connect with them.

COMMON REQUIREMENTS FOR BOTH SCENARIOS

The videoconference system requires 128Kbps minimum **non shared** upload. (Broadband 250 , 500 or an Open Port recommended)

INSTALLATION AND VALIDATION DEADLINES

All the participants must choose one of the two proposed options before 20th October 2010.

OPTION 1 “Black Box” (Spontania hardware version)

The Organization will supply the Spontania equipment to the teams by the 20th November.

The test period with the organisation will be between the 20th November and the 17th December.

Connectivity review will be between the 18th and the 24th December.

OPTION 2 (Spontania software version)

The Organization will supply the software to the teams by the 18th October.

It will be required:

- validating proper installation
- to carry out a test period with the organization (between the 25th October and the 17th Desember)
- to review connectivity (between the 18th and the 24th of December)