

CHALLENGER OF RECORD & DEFENDER
AMERICA'S CUP 36

Notice to Competitors
N°15

To: All Competitors in the 36th America's Cup
From: Royal New Zealand Yacht Squadron and Circolo della Vela Sicilia
Subject: Media Equipment Worn by Crew V0.3
Date: 30th June 2019

Dear Competitor,

As per the AC75 Class Rule 34.1, please find attached the "Media equipment worn by crew V0.3" relating to the AC75 Class Rule 28.3 (f)

Please note that this document is versioned and:

- a) may be amended by the Rule Committee, with agreement of COR/D and the Regatta Director according to AC75 Class Rule 33.1, or
- b) may be amended up to 180 days prior to the first day of racing of the Event in which these specifications apply according to AC75 Class Rule 34.1, and
- c) may be incorporated with the MSS at a later time.

Should any Competitor wish to seek clarification about the content in this document, please get in touch with the RMS Technical Director, Brent Russell.

Kind regards,



Cathy Ryan
COR Team Liaison

CHALLENGER OF RECORD & DEFENDER
AMERICA'S CUP 36

Media equipment worn by crew

COR/D

V0.3

30 June 2019

Copyright © Royal New Zealand Yacht Squadron and Circolo Della Vela Sicilia

Contents

Contents	2
1 General.....	3
2 Biometric equipment	5
3 Audio equipment.....	6
4 Video equipment.....	7
5 Defined terms	8

1 General

- 1.1 All existing rules and definitions in the AC75 Class Rule V1.1 apply to this document, including the MSS.
- 1.2 For the avoidance of doubt:
 - (a) this document may not amend the AC75 Class Rule, except as permitted by AC75 Class Rule 33.1(b); and
 - (b) in case of conflict, Article 30 of the Protocol shall always prevail.
- 1.3 This document satisfies the requirements of “Media equipment worn by crew” in AC75 Class Rule 34.1.
- 1.4 The content of this document may be amended and updated by ACHB with agreement of COR/D up to 180 days prior to the first day of racing of the Event in which these specifications apply, as permitted by AC75 Class Rule 34.1. Competitors should expect amendments during the ACWS to support improvements to the quality of the AC36 broadcast product.
- 1.5 Crew worn media equipment may collect information including, but not limited to, audio, heart rate, breathing rate, activity, and work.
- 1.6 ACHB may require additional information about the crew to be provided by Competitors to enhance the data collected. This includes, but is not limited to age, height, and weight.
- 1.7 It is not necessary for all crew worn media equipment to be supplied or used at the same time. ACHB may choose to supply fewer items of media equipment so long as the installed media equipment is consistent for all Competitors, in accordance with Article 30.1 of the Protocol.
- 1.8 A summary of supplied crew worn media equipment is shown in Table 1.

<i>Quantity</i>	<i>Description</i>	<i>Maximum mass (dimensions)</i>
11	Biometric chest straps or smart shirts	150 gm
4	Wireless audio transmitter	200 gm (120 x 80 x 30 mm)
4	Microphone, mounts and cable	150 gm
1	Body worn camera, mounts and cable	160 gm (30 x 30 x 70 mm)
1	Wireless video transmitter	300 gm (120 x 80 x 30 mm)
1	Wireless video transmitter battery	200 gm (100 x 70 x 25 mm)

Table 1

2 Biometric equipment

- 2.1 ACHB may supply COTS biometric chest straps or smart shirts for designated crew.
- 2.2 The strap or smart shirt will have a maximum mass of 150 gm.
- 2.3 Wireless transmission from supplied biometric media equipment will use ANT+ and/or Bluetooth technology.
- 2.4 Biometric receivers will be installed in the media post and may also be required to be installed by ACHB at other locations to ensure reliable data reception. Any additional receivers will be co-located with existing media equipment and will not require Competitors to supply additional cable paths.

3 Audio equipment

- 3.1 ACHB may supply crew worn microphones, mounting hardware, cables, and wireless transmitters for up to four designated crew.
- 3.2 The microphone, mounting hardware, and cables will have a maximum mass of 150 gm.
- 3.3 The wireless transmitter will have maximum dimensions of 120 x 80 x 30 mm and a maximum mass of 200 gm.
- 3.4 Competitors shall install or use the mounting hardware as directed by ACHB to ensure that the ACHB supplied audio equipment functions as required by ACHB and COR/D.
- 3.5 Where Competitors have installed existing microphones on the crew:
 - (a) the wireless transmitter may be connected to a dedicated output from the Competitor microphone; and
 - (b) the microphone and connection shall be submitted to ACHB for approval.
- 3.6 The switches or buttons provided as part of section 11 of the MSS will provide a facility for the Competitor to mute the microphone when not racing.
- 3.7 In the event that the Regatta Director requires race or event communications to function over ACHB supplied audio equipment, Competitors will be required to connect a suitable speaker or earpiece to the wireless transmitter. Any such speaker or earpiece will be considered part of the Competitors carried equipment.
- 3.8 The ACHB supplied audio equipment may also be used for Competitor communication purposes. Competitors should contact ACHB for further information regarding configuration and costs.

4 Video equipment

- 4.1 ACHB may provide one body worn camera system, including cables, battery, and wireless transmitter, for each of the Challenger and the Defender for use during the AC36 Match.
- 4.2 The body worn camera will have maximum dimensions of 30 x 30 x 70 mm and a maximum mass of 160 gm. The maximum mass includes cables and mounts.
- 4.3 The wireless transmitter will have maximum dimensions of 120 x 80 x 30 mm and a maximum mass of 300 gm.
- 4.4 The battery will have maximum dimensions of 100 x 70 x 25 mm and a maximum mass of 200 gm.
- 4.5 The body worn camera system shall be worn by designated crew. Competitors shall install the camera on the helmet of the crew such that the orientation of the camera ensures that the media equipment functions as required by ACHB and COR/D.

5 Defined terms

5.1 COTS

Commercial Off-The-Shelf devices.

5.2 MSS

The COR/D publication, “Media System Specification for the AC75”.