ACB1 CommBack

Quick Start Guide

Version 1.0 EN

XAG
MAKE AGRICULTURE SMARTER

To Users:

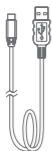Dear users, thank you for choosing XAG products.
For SAFETY reasons and for the best experience possible, XAG recommend that you should read through this Quick Start Guide and Disclaimer within this document before attempting to use the ACB1 CommBack
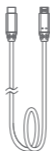
XAG Support

If you have any question about this document, please contact us at Technical Support by Email: Support@xa.com

List of Items

Before unpacking and using the product, please carefully check to see if it contains all the items listed in this list. Please contact XAG or your dealer if there are any missing items.
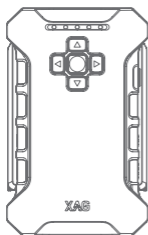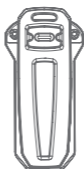
USB to Type-C
Data cable ×1
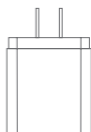
Micro USB to Type-C
Data cable ×1

Type-C to Type-C
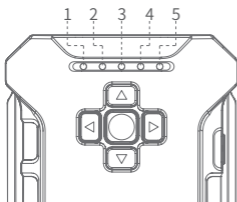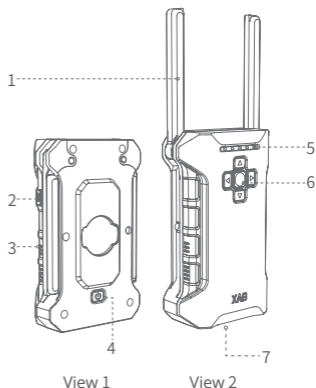Data cable ×1

ACB1 CommBack
×1

Romote Control Clip
×1

Power Adapter
×1

Overview

Main components of the ACB1 CommBack are as follows:

1 Antenna
2 Press-to-talk Button
3 Speaker
4 Power Button
5 Indicator LEDS
6 Control keypad
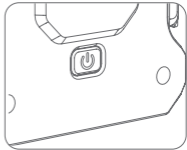7 Data Port (Type-C)

View 1   View 2

Indicator LEDS

1 LED 1 Battery Level LEDS
2 LED 2 Device Connectivity LEDS
3 LED 3 UAV Connectivity LEDS
4 LED 4 Flight Status LEDS
5 LED 5 Task Status LEDS

Using the ACB1 CommBack

1.Turning the CommBack On and Off

STEP 1 – Press and hold the power button

STEP 1 – until the indicator LEDs flashing,
then again hold the Power
Button to turn on the ACB1

CommBack

STEP 2 – Within 60 seconds, the Indicator LED 3 will flash slowly
indicating the device communication module is starting

STEP 3 – Repeat Step 1 to turn off the CommBack

2. Checking Battery Level

Press the power button once to check the current battery level.
When ACB1 CommBack is OFF, the indicator LEDS displays the
battery level of the CommBack. See the below for details on these
indicators.

LED light display		Battery level
5 SOLID LIGHT	●●●●●	80%～100%
4 SOLID LIGHT	●●●●●	60%～80%
3 SOLID LIGHT	●●●●●	40%～60%
2 SOLID LIGHT	●●●●●	20%～40%
1 SOLID LIGHT	●●●●●	5%～20%

The Battery Level Indicator (LED 1) displays the battery level of the
CommBack when it is powered ON. See the table below for details
on these indicators:

LED light display		Battery level
SOLID GREEN	▬▬▬▬	60%～100%
SOLID YELLOW	▬▬▬	20%～60%
SOLID RED	▬▬▬	5%～20%
FLASHING RED	●●●●●●●	Low Battery Device will begin automated shutdown

3.Charging the CommBack

ACB1 CommBack can be charged by standard USB Adapter with a USB to Type-C Cable. During charging, the Battery level LED indicates the status of the Charging. See the table below for details on these indicators.

Charging mode	Battery Level LED	
Rapid charging mode	QUICK FLASH (GREEN)	
Normal charging mode	SLOW FLASH (GREEN)	
Full Charged	SOLID GREEN	

4.Firmware Update

4.1.Method 1 – Update via APP

STEP 1 – Open the Official XAG XPLANET APP

STEP 2 – Select ACB1 CommBack

STEP 3 – Check for Updates

STEP 4 – Select the corresponding firmware to be update, and Press "Start Update"

STEP 5 – The downloading process will begin

STEP 6 – Once the download had been completed and data had been transferred, please turn off the Device following the on-screen instructions

STEP 7 – Press the Power Button once, the device will enter update mode and the indicator LEDS will flash RED

STEP 8 – The indicator LEDS will stop flashing once the update is completed

Repeat this process if the firmware update are unsuccessful

4.2.Method 2 – Update via PC

STEP 1 – Turn ON the ACB1 CommBack

STEP 2 – Press and HOLD the Control Keypad (Center) and Power button until the indicator LEDS turns SOLID RED

STEP 3 – Connect the ACB1 CommBack with an USB to Type-C Cable to the PC

STEP 4 – Transfer the ACB1.fw File onto the ACB1 CommBack

STEP 5 – Safely Eject the CommBack, Press and HOLD the Control

Keypad (Center) and Power button until the indicator LEDS turns OFF

STEP 6 – Power the Power Button once, the device will enter update mode and the indicator LEDS will flash RED

STEP 7 – The indicator LEDS will stop flashing once the update is completed

Repeat this process if the firmware update are unsuccessful

5.Device Connection

STEP 1 – Connect the ACB1 CommBack with an Type-C USB Cable to the Smart Phone

STEP 2 – Start XPLANET APP and ensure the device is connected successfully (the Ψ icon turns green)

STEP 3 – Click on Ψ the icon to check for Hotspot Details

Default name: XAG123

Default Password: 20070401

Hotspot Details on ACB1 CommBack can be edited

STEP 4 – Edit the Hotspot detail to be consistent with your Smart Phone, and enable Hotspot

STEP 5 – Disconnect the USB Cable connecting your Smart Phone and ACB1 CommBack, and waits for the device connection via WiFi. Once it is connected, the WIFI connection icon on "XPLANET" APP to light up (🛜 turns green)

6.Pairing the Aircraft

STEP 1 – When your Smart phone is wirelessly connected via Hotspot, access XPLANET or XGEOMATICS APP

STEP 2 – Select Device, and click on "Pair"

STEP 3 – Follow the on-screen instruction and Power on the UAV, and select the corresponding device to be paired

STEP 4 – If the pairing process is successful, an notification will
appear "Pairing successful", and the device will be
displayed on the device interface
Repeat this process if the firmware update are
unsuccessful

STEP 5 – Confirm the UAV is functioning normally by selecting
the UAV and Select "USE" in deployment of UAS, if it is
displaying "IN USE", the UAV is functioning normally

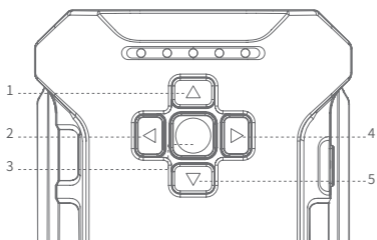Note: Please be noted that pairing the aircraft requires sufficient
Operator Level

Follow the on-screen instruction and Power on the UAV, and select
the corresponding device to be paired.

7.Aircraft Operation by Control Keypad

Operators can remotely control the flight of the UAV by the Control
Keypads during the Flight Operation, Hovering or Return to Home.
When the UAV are operating the UAV by the CommBack, the Flight
Status LEDs (LED 4) will turn Green.

Directional key (1-2, 4-5) will command the UAV to move in the
direction based on the nose of the UAV at
a speed of 2m/s.

Emergency key (3) Short Press the Emergency key will
command the UAV to Hover Long Press
(>2s) the Emergency key will command
the UAV to land immediately

① Forward key   ④ Right key
② Left key   ⑤ Backward key
③ Emergency key

Specifications

Model: ACB1

Dimensions:

118×73×34mm(when the antenna is expanded)

　90×73×34mm(when the antenna is folded)

Operating frequency: 2.4GHz/5.8GHz

Transmission power: 23dbm

Effective signal distance (without any interference/blocking) : 1km

Built-in battery capacity: 3500mAh/18WAh

Charging environment temperature: 5°C to 45°C

Charging voltage/current: 5V/2A、9V/1.5A、12V/1.5A

Mesh network: support

Voice broadcast: support

Press-to-talk function: support

GPS positioning: support

Mesh network: support

Voice broadcast: support

Press-to-talk function: support

GPS positioning: support

Mesh spraying: support

External power supply: support

External power supply parameters: 5V/2A

Protection grade: IP54

Operating temperature: -20°C to 60°C

Supported mobile phone operating system: Android, IOS

Attachment:

Refer to the table below for more information about the Indicator LEDS

Indicator on CommBack		LED light display	
LED 1 (Battery Level LEDS)	SOLID GREEN		60%-100%
	SOLID YELLOW		20%-60%
	SOLID RED		5%-20%
	QUICK FLASH RED		Low Battery Device will begin automated shutdown
	SLOW FLASH GREEN		Normal Charging
	QUICK FLASH GREEN		Rapid Charging
LED 2 (Device Connectivity LEDS)	SOLID GREEN		Smart Controller has been connected
	OFF		Not connected
	SOLID RED		Connection FAIL
LED 2 (UAV Connectivity LEDS)	SLOW FLASH GREEN		The module is starting
	SOLID GREEN		UAV Connected
	OFF		Not connected
LED 2 (Flight Status LEDS)	RED		Connection FAIL
	SOLID GREEN		Manual Mode
	OFF		Auto Mode

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www.xa.com/en

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the prior notice.

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