

Configuration Guide for MARBLE M-KEY

The purpose of the guide is a top level outline of the steps taken for configuration of a Vision 3 frame system and a MARBLE processor running the M-KEY application. The detailed information for each step of installation and configuration are available in the manuals for Vision 3 and M-KEY and can found on the USB drive included in the system packaging.

Vision Frame System

1. Install the Vision 3 frame. Installation information can be found in section 2 (pages 8-15) of the Vision 3 manual.
2. Configure the Vision 3 frame for network connections. This connection will then be used to configure the MARBLE processor and M-KEY application. Please see Vision 3 manual section 3 (pages 17-18) for network configuration of the frame.
3. Make physical connections on the rear module of the MARBLE-V1 processor running the M-KEY application.
For rear modules VR04 and VR07, connect the appropriate signals via BNC for SDI operation and connect up to 4 x 10GbE connections for IP operation.
For rear module VR06, connect the appropriate signals via BNC for SDI operation and connect up to 2 x 10GbE connections for IP operation.
These connections are detailed on page 6 of the M-KEY user manual.

MARBLE-V1 and M-KEY Application

4. You are now ready to configure the M-KEY application and the MARBLE-V1 processor. VisionWeb web browser control is recommended for the configuration of the MARBLE-V1 software apps. This is achieved by entering the IP address of the frame into a web browser (10.0.0.201 on Ethernet port 1 of the frame by default). You should now see the Vision 3 home page and all installed boards in the frame. Select the slot of the M-KEY application to be configured by clicking on it.
5. You will now see the UI for the M-KEY application. For IP operation, select the **Ethernet Interfaces** menu at the bottom of the browser window. You will only need to configure the connections needed for your hardware (the number of SFP+ fitted to your hardware) and the connections required for your application (i.e. are protect signals in/out being used). The instructions for configuring the interfaces are in section 4.1 on page 7 of the M-KEY manual. This step can be ignored if input and output operation is SDI.
6. Next, configure inputs by selecting the **Input** menu on the bottom of the browser window. M-KEY is a triple input application for the background, foreground and key signals. Specific instructions on configuring inputs are found in section 4.2, 4.3 and 4.4 (pages 9-11) in the M-KEY manual. For SDI operation, Input configuration is complete once the input is enabled, and protocol is set to SDI.
7. Once the inputs are configured, you can check the input status by going to the Status tab inside the **Input** menu. This is highlighted in the manual in section 5.1 on page 13. You should see that configured inputs are present and in the proper format.
8. Outputs are configured next. Select the **Output** menu on the bottom of the browser window. There are two outputs in M-KEY. IP output configuration is covered in section 4.5 on page 12 of the M-KEY manual. For SDI operation, an output needs to be enabled and SDI selected as the protocol. After outputs are configured, status can be checked in the status tab of this menu. You should see that outputs are present and in the proper format.
9. Output traffic shaping, if required for IP operation, can now be configured. Detailed instructions on traffic shaping can be found in section 8, page 24 of the manual.
10. Referencing and output timing should now be configured. Select the **References** menu at the bottom of the browser window. Reference configuration is covered in section 7 of the manual starting on page 19.
11. The MARBLE-V1 processor should now be configured for input/output operation. The keyer operation is next. Select the **Keyer** menu at the bottom of the browser window. Operation is outlined in section 6 of the M-KEY manual beginning on page 15.
12. The mixer operation to fade the keyer up and down is outlined on page 17 of the manual.

Detailed installation and configuration information is provided in the product manuals. For installation and operation questions please email support@crystalvision.tv