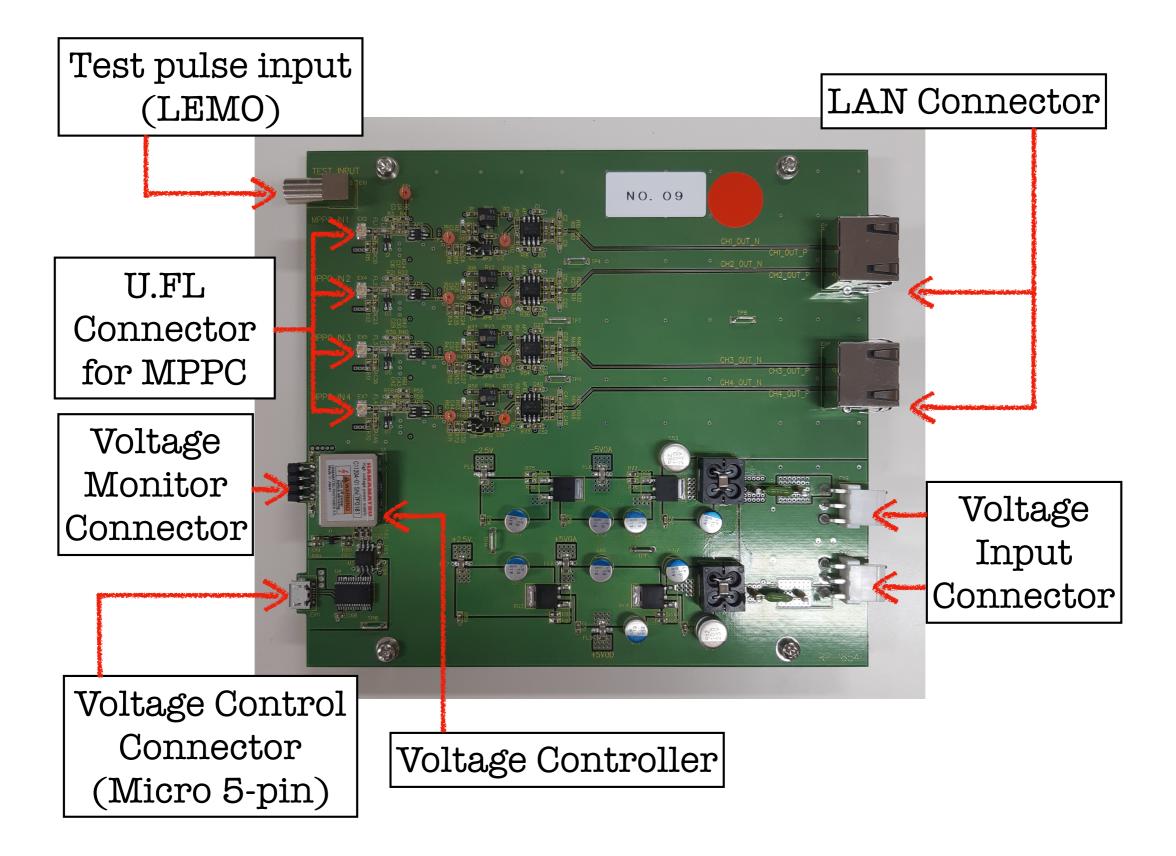
DCV Manual

5 February, 2020

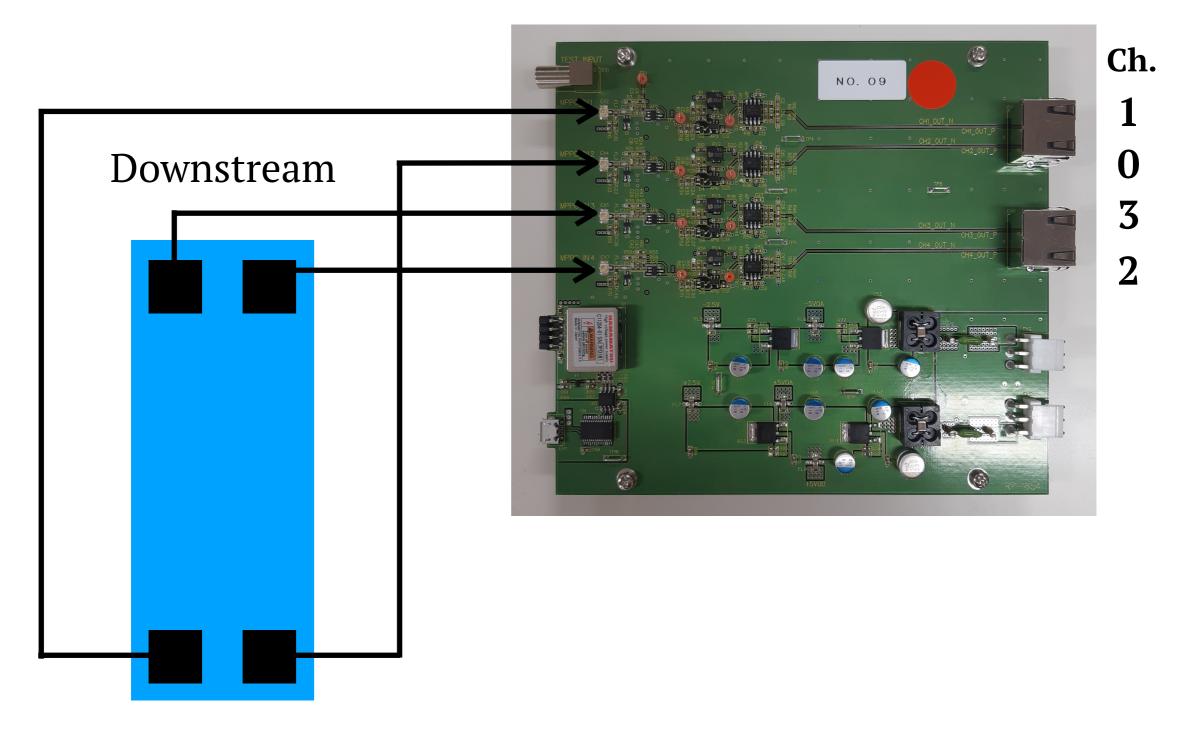
HongMin KIM

DCV Read-out Board

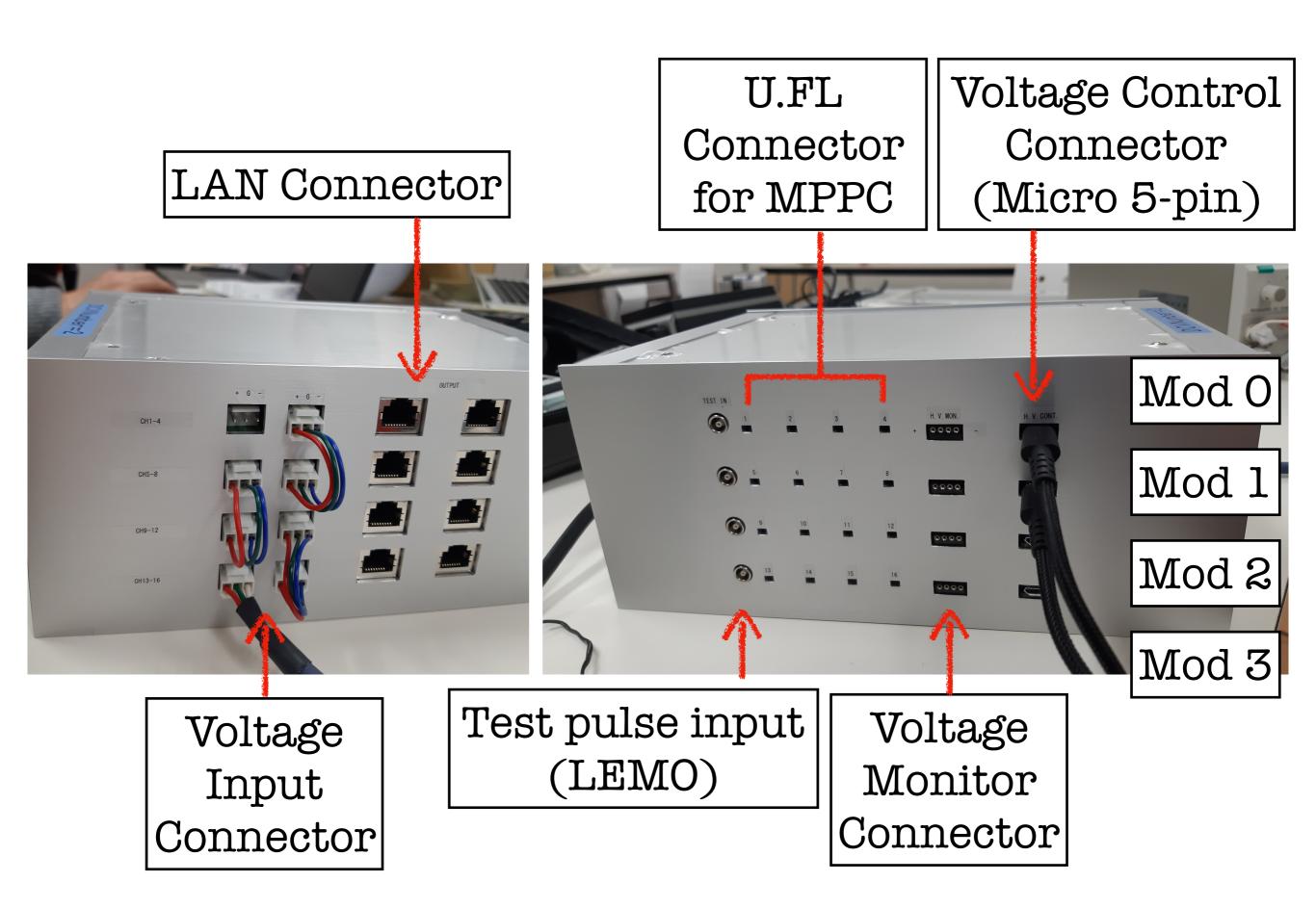


DCV Setup

When looking at the surface to which the MPPCs are attached



Upstream



MPPC Signal Check Process

- 1. Turn the voltage dial of the power supply to zero point.
 - To prevent sudden power supply.
- 2. Turn on the power supply.
 - Voltage = +7.0 V, -7.0 V.

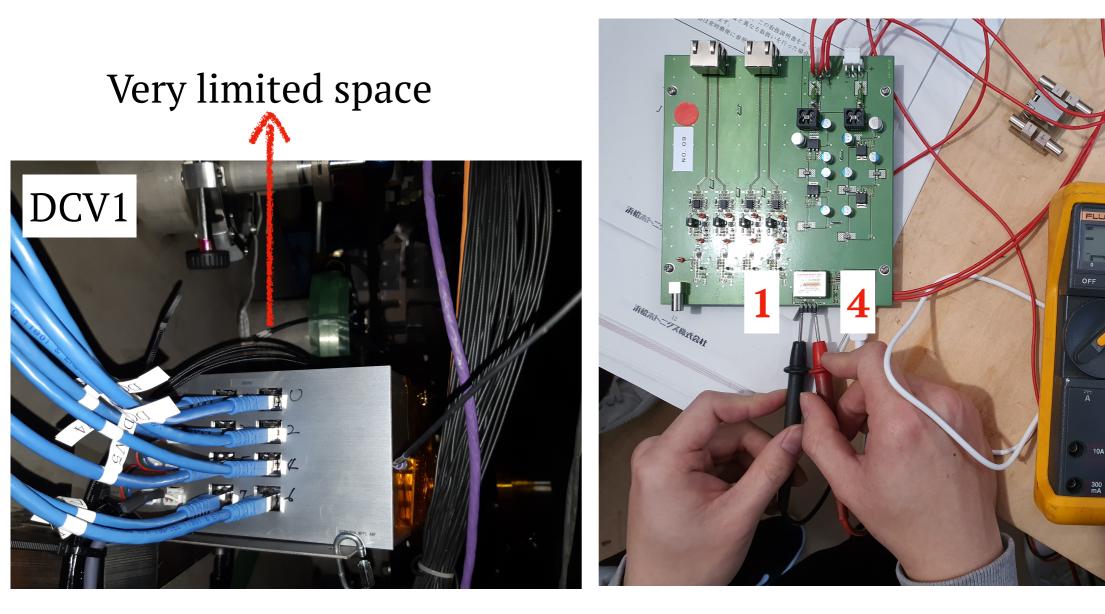




MPPC Signal Check Process

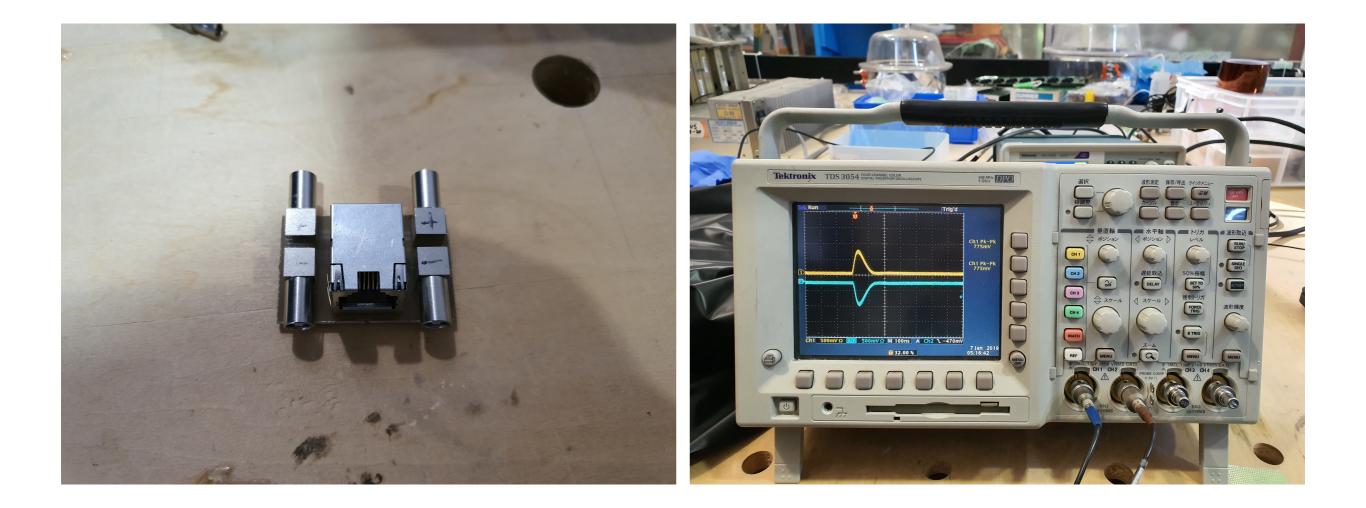
3. Check the voltage on each board via the voltage monitor connector using a multimeter.

How can we check the read-out board of the DCV1?



MPPC Signal Check Process

4. Check the MPPC signal.



Comparison of MPPC signal by read-out board

LED Signal Properties							
Frequency				Amplitude			
Width[ns]							
Power Supply	Tera term [V]	Voltage monitor [V]	Board 1		Board 2		
			Pulse height[mV]	Width[ns]	Pulse he	ight[mV]	Width[ns]
54 V							
55 V							
56 V							
57 V							
58 V							