

Goal of the program : set the amplitude and phase correctly for 8 HIFU channels

HIFU_simple
Untitled 1

HIFU Control Tool(Novatech 409)

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COM port Setup

DDS1 COM: COM5, DDS2 COM: COM6

Update Channel: ch0

	DDS1 COM	DDS2 COM	Update	Check
ch0	0	0	Update	Check
ch1	-45	45	Update	Check
ch2	-90	90	Update	Check
ch3	-135	135	Update	Check

Set amplitude of each channels

	Target Phase	Meas Phase	Phase Difference	Phase Variance	Target Amp	Meas Amp	Update	Check
ch4	180	180			0		Update	Check
ch5	135	225			0		Update	Check
ch6	90	270			0		Update	Check
ch7	45	315			0		Update	Check

Calibration Channel: ch1

Calibrate

Amplitude: 0

Update Amp

Update Phase

Message: Adjust Phase

File Name: C:\Users\JiHoon\Documents\MATLAB\JH_lib\gui_HIFU\test

save data

load data

*Calibration Phase

- because of the matching network, the phase needs to be calibrated.

1. Select the channel.
2. Automatically changes the phase from 0 ° to 100 ° and get the average phase difference and variation (target phase - meas phase).
3. Click the update button. It compensates the difference and set the phase.
4. Click the check button. It measures the phase.

*Save data

- You can save the data to the filename