



# TouchCore Family

Application Note #037 (AN037-V1.0)

AN

## [TouchCore 2.0] How to Use TouchCore 2.0 Tool

V1.0

September 2008

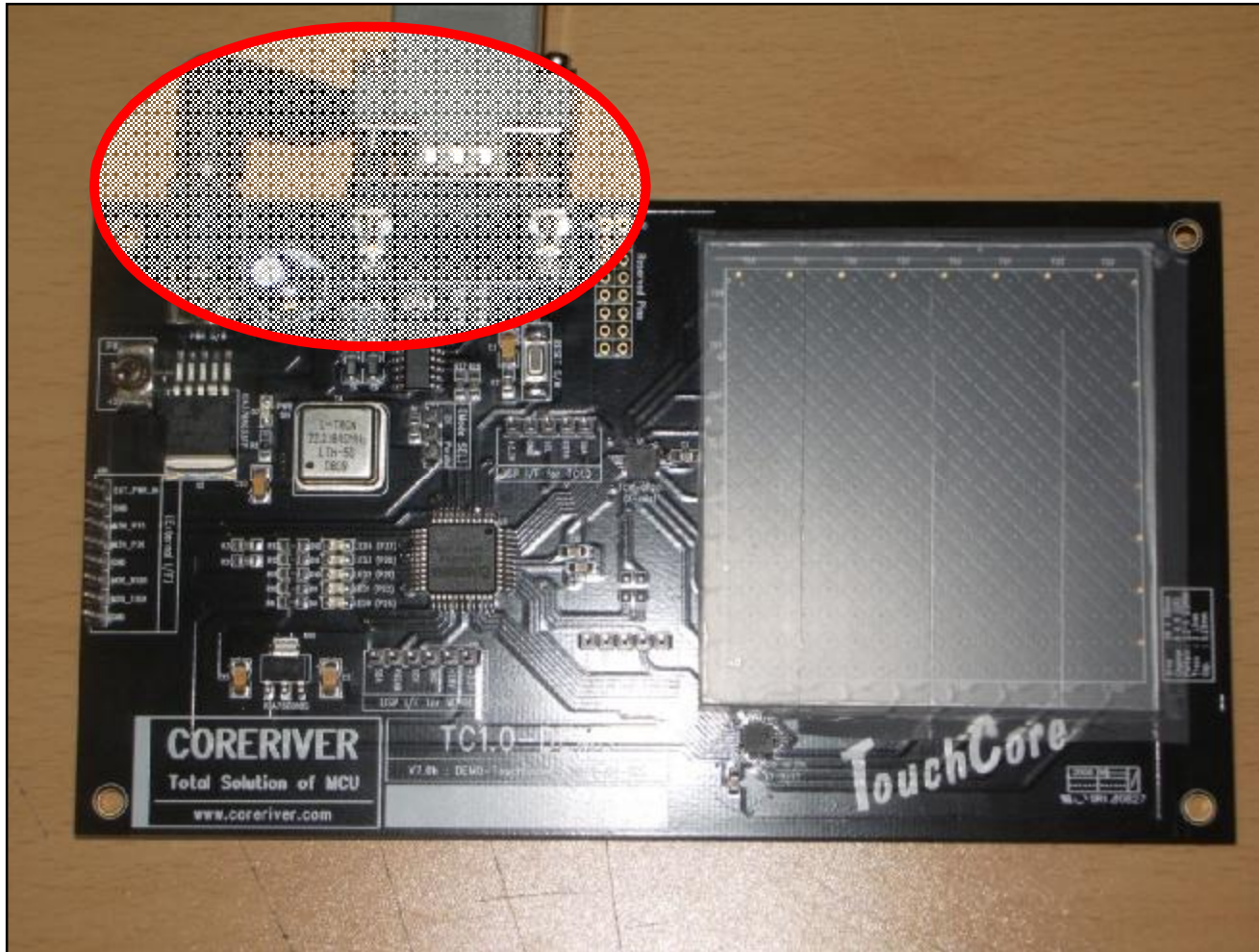
- ❑ CORERIVER Semiconductor reserves the right to make corrections, modifications, enhancements, improvements, and other changes to its products and services at any time.
- ❑ CORERIVER shall give customers at least a three month advance notice of intended discontinuation of a product or a service through its homepage.
- ❑ Customers should obtain the latest relevant information before placing orders and should verify that such information is current and complete.
- ❑ The CORERIVER products listed in this document are intended for usage in general electronics applications. These CORERIVER products are neither intended nor warranted for usage in equipment that requires extraordinarily high quality and/or reliability or a malfunction or failure of which may cause loss of human life or bodily injury..

# Contents

1. How to Use – TouchCore 2.0 Tool

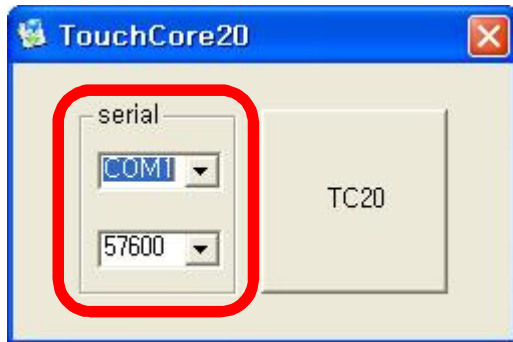
# 1. Setting – TouchCore 2.0 Demo Board

1. Connect the ISP cable with your GenICE2000

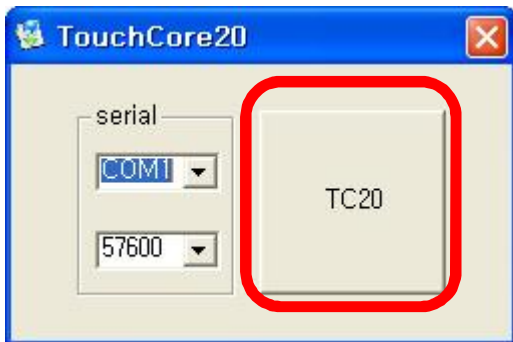


# 1. Setting – TouchCore 2.0 Tool

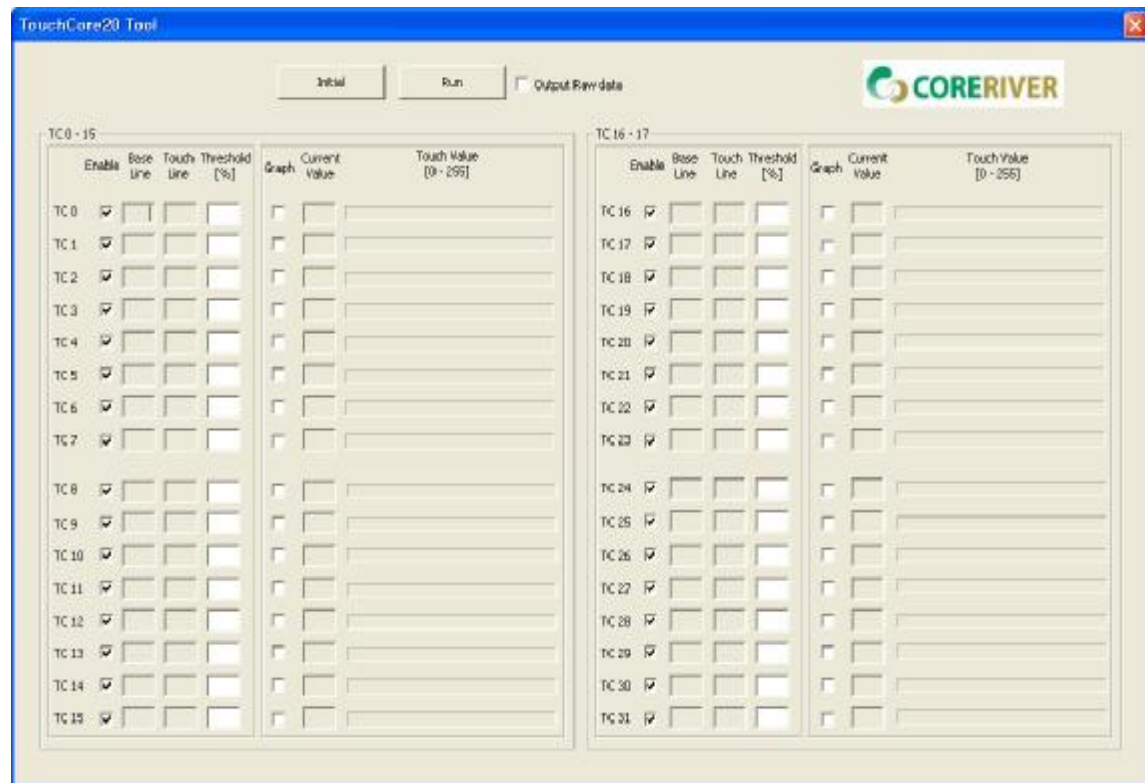
- 1-1. Check the your COM Port.
- 1-2. Baud rate setting 57600.



- 1-3. Click Button TC20.

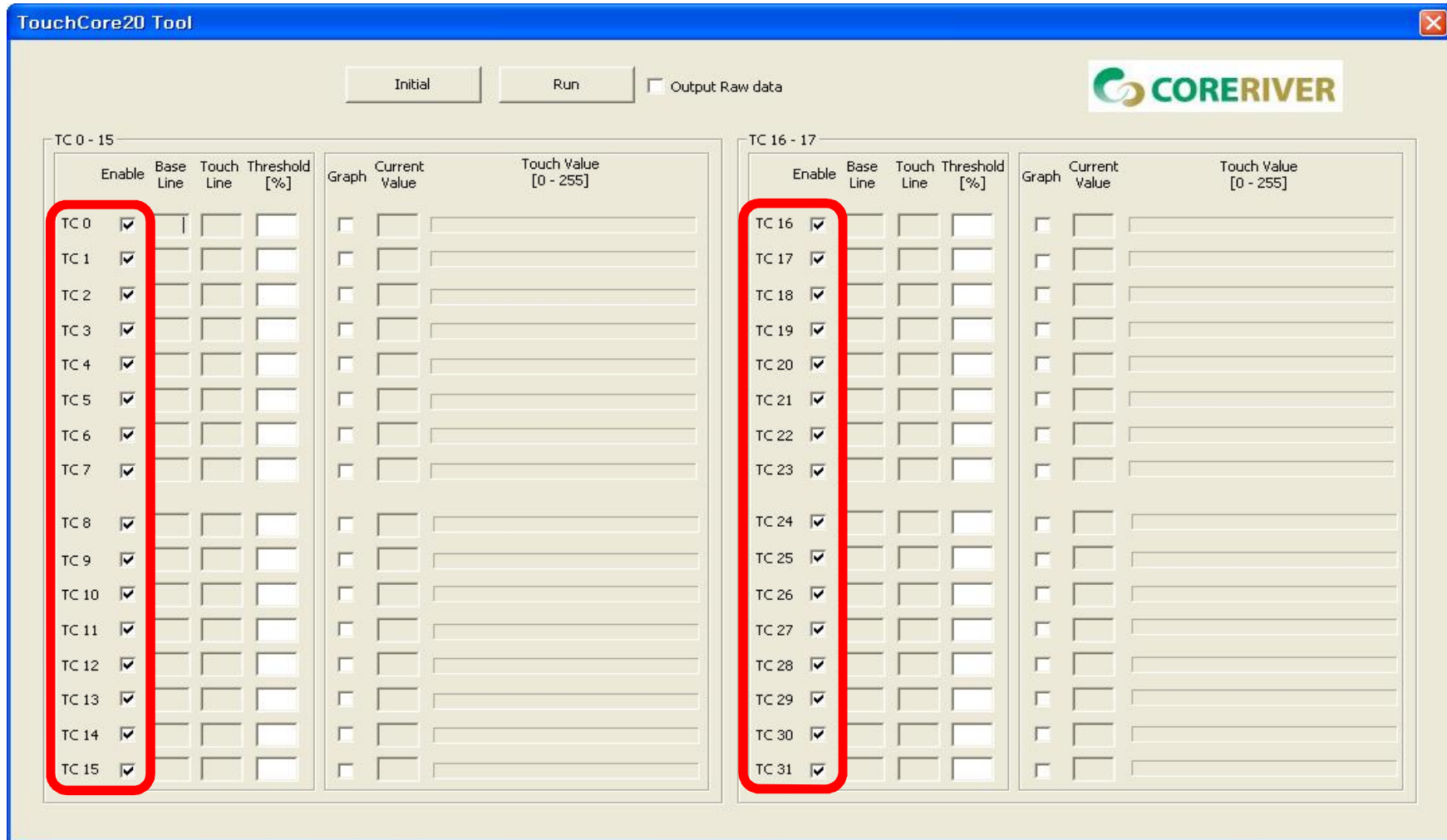


## 1-4. View TouchCore 2.0 Tool



# 1. Setting – TouchCore 2.0 Tool

1-5. You must setting enable box before use TC 2.0 tool.



## 2. Running – TouchCore 2.0 Tool

### 2-1. Click Initial Button

The screenshot shows the TouchCore20 Tool interface. At the top, there is a blue title bar with the text "TouchCore20 Tool" and a close button. Below the title bar, there is a control area with three buttons: "Initial" (highlighted with a red box), "Run", and "Output Raw data" (with a checkbox). The CORERIVER logo is in the top right corner. The main area is divided into two panels: "TC 0 - 15" on the left and "TC 16 - 17" on the right. Each panel contains a table with columns for "Enable", "Base Line", "Touch Line", "Threshold [%]", "Graph", "Current Value", and "Touch Value [0 - 255]".

TC 0 - 15						
	Enable	Base Line	Touch Line	Threshold [%]	Graph	Touch Value [0 - 255]
TC 0	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 2	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 4	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 5	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 6	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 7	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 8	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 9	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 11	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 12	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 13	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 14	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

TC 16 - 17						
	Enable	Base Line	Touch Line	Threshold [%]	Graph	Touch Value [0 - 255]
TC 16	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 17	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 18	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 19	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 20	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 21	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 22	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 23	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 24	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 25	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 26	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 27	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 28	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 29	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 30	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TC 31	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



## 2. Running – TouchCore 2.0 Tool

### 2-2. Showing Baseline & Touchline

The screenshot shows the TouchCore20 Tool interface with the following controls and data:

Buttons: Stop, Run,  Output Raw data

Logo: CORERIVER

**TC 0 - 15**

	Enable	Base Line	Touch Line	Threshold [%]	Graph	Current Value	Touch Value [0 - 255]
TC 0	<input checked="" type="checkbox"/>	5	48		<input type="checkbox"/>		
TC 1	<input checked="" type="checkbox"/>	5	56		<input type="checkbox"/>		
TC 2	<input checked="" type="checkbox"/>	5	154		<input type="checkbox"/>		
TC 3	<input checked="" type="checkbox"/>	6	64		<input type="checkbox"/>		
TC 4	<input checked="" type="checkbox"/>	6	42		<input type="checkbox"/>		
TC 5	<input checked="" type="checkbox"/>	6	47		<input type="checkbox"/>		
TC 6	<input checked="" type="checkbox"/>	5	53		<input type="checkbox"/>		
TC 7	<input checked="" type="checkbox"/>	6	52		<input type="checkbox"/>		
TC 8	<input checked="" type="checkbox"/>	6	20		<input type="checkbox"/>		
TC 9	<input checked="" type="checkbox"/>	5	26		<input type="checkbox"/>		
TC 10	<input checked="" type="checkbox"/>	5	64		<input type="checkbox"/>		
TC 11	<input checked="" type="checkbox"/>	5	17		<input type="checkbox"/>		
TC 12	<input checked="" type="checkbox"/>	5	16		<input type="checkbox"/>		
TC 13	<input checked="" type="checkbox"/>	5	35		<input type="checkbox"/>		
TC 14	<input checked="" type="checkbox"/>	5	32		<input type="checkbox"/>		
TC 15	<input checked="" type="checkbox"/>	6	64		<input type="checkbox"/>		

**TC 16 - 17**

	Enable	Base Line	Touch Line	Threshold [%]	Graph	Current Value	Touch Value [0 - 255]
TC 16	<input checked="" type="checkbox"/>	6	25		<input type="checkbox"/>		
TC 17	<input checked="" type="checkbox"/>	5	25		<input type="checkbox"/>		
TC 18	<input checked="" type="checkbox"/>	5	63		<input type="checkbox"/>		
TC 19	<input checked="" type="checkbox"/>	5	21		<input type="checkbox"/>		
TC 20	<input checked="" type="checkbox"/>	5	22		<input type="checkbox"/>		
TC 21	<input checked="" type="checkbox"/>	5	31		<input type="checkbox"/>		
TC 22	<input checked="" type="checkbox"/>	5	30		<input type="checkbox"/>		
TC 23	<input checked="" type="checkbox"/>	6	29		<input type="checkbox"/>		
TC 24	<input checked="" type="checkbox"/>	6	31		<input type="checkbox"/>		
TC 25	<input checked="" type="checkbox"/>	6	45		<input type="checkbox"/>		
TC 26	<input checked="" type="checkbox"/>	5	64		<input type="checkbox"/>		
TC 27	<input checked="" type="checkbox"/>	5	33		<input type="checkbox"/>		
TC 28	<input checked="" type="checkbox"/>	5	64		<input type="checkbox"/>		
TC 29	<input checked="" type="checkbox"/>	6	27		<input type="checkbox"/>		
TC 30	<input checked="" type="checkbox"/>	999	0		<input type="checkbox"/>		
TC 31	<input checked="" type="checkbox"/>	999	0		<input type="checkbox"/>		

## 2. Running – TouchCore 2.0 Tool

2-3. Click Run button

2-4. Showing Current value.

The screenshot shows the TouchCore20 Tool interface. At the top, there are buttons for 'Initial', 'Stop', and 'Output Raw data'. The 'Stop' button is highlighted with a red rectangle. Below the buttons, there are two main sections: 'TC 0 - 15' and 'TC 16 - 17'. Each section contains a table with columns for 'Enable', 'Base Line', 'Touch Line', 'Threshold [%]', 'Graph', 'Current Value', and 'Touch Value [0 - 255]'. The 'Current Value' column is highlighted with a red rounded rectangle. The 'Touch Value' column is also highlighted with a red rounded rectangle. The 'CORERIVER' logo is visible in the top right corner.

TC	Enable	Base Line	Touch Line	Threshold [%]	Graph	Current Value	Touch Value [0 - 255]
TC 0	<input checked="" type="checkbox"/>	5	48		<input type="checkbox"/>	6	
TC 1	<input checked="" type="checkbox"/>	5	56		<input type="checkbox"/>	6	
TC 2	<input checked="" type="checkbox"/>	5	154		<input type="checkbox"/>	58	
TC 3	<input checked="" type="checkbox"/>	6	64		<input type="checkbox"/>	7	
TC 4	<input checked="" type="checkbox"/>	6	42		<input type="checkbox"/>	8	
TC 5	<input checked="" type="checkbox"/>	5	47		<input type="checkbox"/>	16	
TC 6	<input checked="" type="checkbox"/>	5	53		<input type="checkbox"/>	25	
TC 7	<input checked="" type="checkbox"/>	5	52		<input type="checkbox"/>	7	
TC 8	<input checked="" type="checkbox"/>	5	20		<input type="checkbox"/>	6	
TC 9	<input checked="" type="checkbox"/>	5	26		<input type="checkbox"/>	5	
TC 10	<input checked="" type="checkbox"/>	5	64		<input type="checkbox"/>	5	
TC 11	<input checked="" type="checkbox"/>	5	17		<input type="checkbox"/>	5	
TC 12	<input checked="" type="checkbox"/>	5	16		<input type="checkbox"/>	5	
TC 13	<input checked="" type="checkbox"/>	5	35		<input type="checkbox"/>	5	
TC 14	<input checked="" type="checkbox"/>	5	32		<input type="checkbox"/>	6	
TC 15	<input checked="" type="checkbox"/>	6	64		<input type="checkbox"/>	6	
TC 16	<input checked="" type="checkbox"/>	6	25		<input type="checkbox"/>	8	
TC 17	<input checked="" type="checkbox"/>	5	25		<input type="checkbox"/>	5	
TC 18	<input checked="" type="checkbox"/>	5	63		<input type="checkbox"/>	5	
TC 19	<input checked="" type="checkbox"/>	5	21		<input type="checkbox"/>	5	
TC 20	<input checked="" type="checkbox"/>	5	22		<input type="checkbox"/>	5	
TC 21	<input checked="" type="checkbox"/>	5	31		<input type="checkbox"/>	5	
TC 22	<input checked="" type="checkbox"/>	5	30		<input type="checkbox"/>	6	
TC 23	<input checked="" type="checkbox"/>	6	29		<input type="checkbox"/>	6	
TC 24	<input checked="" type="checkbox"/>	5	31		<input type="checkbox"/>	7	
TC 25	<input checked="" type="checkbox"/>	6	45		<input type="checkbox"/>	7	
TC 26	<input checked="" type="checkbox"/>	5	64		<input type="checkbox"/>	27	
TC 27	<input checked="" type="checkbox"/>	5	33		<input type="checkbox"/>	6	
TC 28	<input checked="" type="checkbox"/>	5	64		<input type="checkbox"/>	6	
TC 29	<input checked="" type="checkbox"/>	6	27		<input type="checkbox"/>	8	
TC 30	<input checked="" type="checkbox"/>	999	0		<input type="checkbox"/>	0	
TC 31	<input checked="" type="checkbox"/>	999	0		<input type="checkbox"/>	0	



## 2. Running – TouchCore 2.0 Tool

2-5. Setting Graph checkbox

2-6. Showing Graph

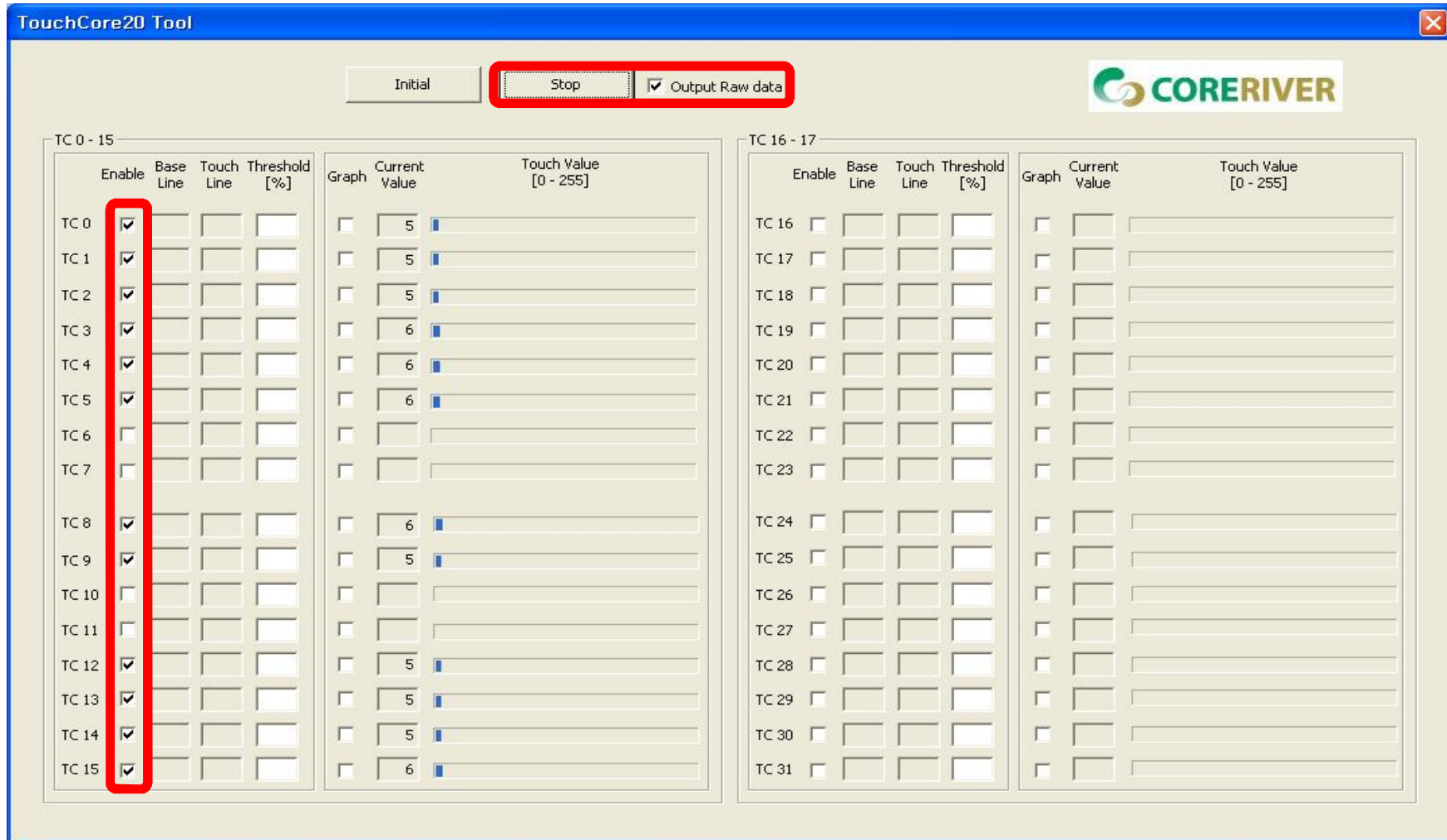
The screenshot shows the TouchCore20 Tool interface. At the top, there are buttons for 'Initial' and 'Stop', and a checkbox for 'Output Raw data'. The CORERIVER logo is in the top right. The main area is divided into sections for TC 0 - 15 and TC 16 - 17. Each section has a table with columns for 'Enable', 'Base Line', 'Touch Line', 'Threshold [%]', 'Graph', 'Current Value', and 'Touch Value [0 - 255]'. The 'Graph' checkbox for TC 0 is highlighted with a red square. A pop-up window titled 'TC 0.0' is open, showing a graph with a current value of 256. The graph has a green grid and a white line representing the touch signal. The text 'TC 0.0 현재값 = 256' is displayed above the graph.

TC	Enable	Base Line	Touch Line	Threshold [%]	Graph	Current Value	Touch Value [0 - 255]
TC 0	<input checked="" type="checkbox"/>	5	48		<input checked="" type="checkbox"/>	256	
TC 1	<input checked="" type="checkbox"/>	5	56		<input type="checkbox"/>	5	
TC 2	<input checked="" type="checkbox"/>	5	154		<input type="checkbox"/>	5	
TC 3	<input checked="" type="checkbox"/>	6	64		<input type="checkbox"/>	6	
TC 4	<input checked="" type="checkbox"/>	6	42		<input type="checkbox"/>	6	
TC 5	<input checked="" type="checkbox"/>	5	47		<input type="checkbox"/>	6	
TC 6	<input checked="" type="checkbox"/>	5	53		<input type="checkbox"/>	5	
TC 7	<input checked="" type="checkbox"/>	5	52		<input type="checkbox"/>	6	
TC 8	<input checked="" type="checkbox"/>	5	20		<input type="checkbox"/>	6	
TC 9	<input checked="" type="checkbox"/>	5	26		<input type="checkbox"/>	5	
TC 10	<input checked="" type="checkbox"/>	5	64		<input type="checkbox"/>	5	
TC 11	<input checked="" type="checkbox"/>	5	17		<input type="checkbox"/>	5	
TC 12	<input checked="" type="checkbox"/>	5	16		<input type="checkbox"/>	5	
TC 13	<input checked="" type="checkbox"/>	5	35		<input type="checkbox"/>	5	
TC 14	<input checked="" type="checkbox"/>	5	32		<input type="checkbox"/>	5	
TC 15	<input checked="" type="checkbox"/>	6	64		<input type="checkbox"/>	6	
TC 30	<input checked="" type="checkbox"/>	999	0		<input type="checkbox"/>	0	
TC 31	<input checked="" type="checkbox"/>	999	0		<input type="checkbox"/>	0	

### 3. Make Raw data file – TouchCore 2.0 Tool

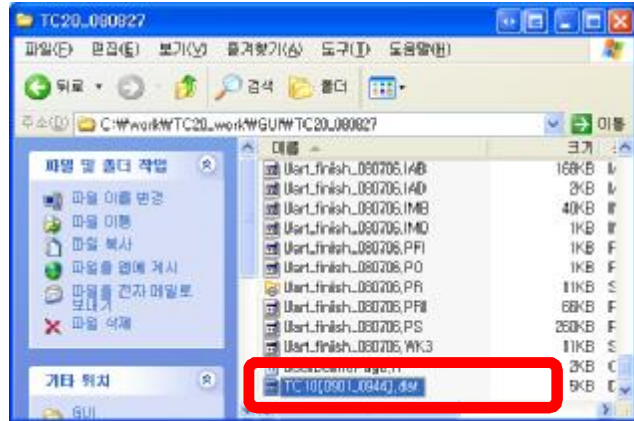
3-1. Setting Output Raw data & Channel enable Check box.

3-2. Click Run Button



### 3. Make Raw data file – TouchCore 2.0 Tool

#### 3-3. Make Raw data file(TC10[Now Time].dat)



3-4. View Raw data file

